SOLUTIA
Applied Chemistry, Creative Solutions

Solutia Inc.
702 Clydesdale Avenue
Anniston, Alabama 36201-5328
Tel 256-231-8400

August 9, 2000

Mr. Wm. Gerald Hardy, Chief
Hazardous Waste Branch
Land Division
Alabama Department of Environmental Management
1400 Coliseum Blvd.
Montgomery, AL 36130-1463

Re: Revised Interim Measures Work Plan
Alabama D.O.T. Project No: STPAA-62(15)
State Route 21 From Cooper Lane to Existing 4-Lane at Oxford, Alabama

Dear Mr. Hardy:

Attached is a revised copy of the Interim Measures Plan (IMP) for the mitigation efforts to be constructed by Solutia at the site of the new bridge to be built on State Route 21 over Choccolocco Creek in Talladega County. Because the drawings which accompany the plan have not been revised, they are not included with the attachment.

The revised document includes the changes requested in your letter of July 27, 2000, which was received by Solutia on July 31, 2000. Specifically, the text of Section 5 has been revised to require that both filtered and unfiltered samples be analyzed for PCBs. If the daily downstream turbidity sample is at least one order of magnitude more turbid than the upstream sample, additional upstream and downstream water samples will be obtained and will be split. One portion of each of the splits will be filtered and the solid residue on the filters will be analyzed for PCBs. The other portions of the split samples will also be analyzed for PCBs, without filtration. All samples will be analyzed using the United States Environmental Protection Agency (USEPA) manual SW-846 Method 8082. It is noted that the standard reporting limit for total PCBs using this method is 67 ug/l, somewhat greater than the limit of 0.014 ug/l referenced in your letter. We are not aware of any routine analytical method which provides reporting limits as low as that number.

We believe that this revision addresses the only outstanding issue on the IMP and we look forward to receiving your approval of the plan. In the interim, we will be working with the Alabama Department of Transportation (ALDOT) to arrange a public meeting. In this context, it will be impossible to arrange such a meeting by the middle of August, as suggested in your letter. ALDOT requires a minimum 15 day notice period for public

meetings. Allowing for time to draft the notice and arrange for a suitable venue, it is unlikely that the meeting can be held before the first week of September. Because of the Labor Day holiday, it will more likely be held during the second week of September. Please let us know your availability to attend the meeting in that time frame.

Sincerely,
Solutia Inc.

Craig R. Branchfield
Manager, Remedial Projects

cc: Mr. Craig Brown, USEPA
Mr. Wesley Hardegree, USEPA
Mr. Russ McLean, USEPA
Ms. Karen Knight, USEPA, Anniston Office
Mr. B. E. Cox, ALDOT

REPORT

RFI RESULTS AND INTERIM MEASURES PLAN
ALABAMA D.O.T.
PROJECT NO: STPAA-62(15)
ON S.R. 21 FROM COOPER LANE TO EXISTNG 4-LANE AT OXFORD
TALLADEGA/CALHOUN COUNTIES

Prepared for

SOLUTIA INC.
702 Clydesdale Avenue
Anniston, AL 36201

Second Revision August 9, 2000

URS Greiner Woodward Clyde

7600 West Tidwell, Suite 600
Houston, Texas 77040

1 Introduction

The Alabama Department of Transportation (ALDOT) is progressing with the planned expansion of Route 21 to incorporate a divided highway system. A section of the planned highway expansion from Cooper Lane to the existing 4-Lane at Oxford (Sheet No. 1 of the drawings) is scheduled to begin construction in June 2000.

Previous environmental studies have identified polychlorinated biphenyls (PCBs) in the sediments within the construction area. Solutia will perform several Interim Measures (IM) to address the affected sediment material prior to the commencement of ALDOT construction efforts. These include the following:

- Clearing and disposal of trees within the construction ROW;
- Excavating and segregating affected sediments from proposed bridge bents, in the utility corridor, and the drainage ditch;
- Managing excavated sediments; and
- Providing erosion and sediment controls in construction areas.

In the utility corridor and drainage ditch, affected sediments exhibiting concentrations exceeding 1 mg/kg but less than 50 mg/kg will be excavated and temporarily stockpiled along the proposed roadway embankment. Sediments having PCB concentrations greater than 50 mg/kg will be removed from the site and transported to a permitted Toxic Substances Control Act (TSCA) landfill, in accordance with the requirements of TSCA. Sediments in the Bridge Bent 4 area will only be excavated to remove concentrations above 50 mg/kg.

This document, together with the attached drawings, detail how the IM will be accomplished. The Corrective Measures Study (CMS), which was submitted on February 25, 2000, addresses the final disposition of affected sediments. Although the CMS considers the requirements of 40 CFR 761.61 for disposition of PCB remediation waste and, specifically, the requirements of 40 CFR 761.61 (a) (4) (i), it is understood that the selection and implementation of final corrective measures will be governed by the Resource Conservation and Recovery Act (RCRA) and, more specifically, under the requirements of Solutia's Alabama Hazardous Waste Management and Minimization Act (AHWMMA) permit.

2 Background Information

As part of the overall planning and design process, three field investigations were conducted in the Route 21 area adjacent to Choccolocco Creek. Sampling for these three investigations were concentrated in areas of anticipated excavation activities by ALDOT and relocation of utilities. The results were used in creating this IM Plan.

The sampling locations for these three investigations are shown on Sheet Nos. 2 and 3 of the drawings. The results of PCB analyses in soil are shown on Sheet Nos. 4 through 10 of the drawings. PCB-containing soils were generally encountered to depths in the range of 0 to 4 feet, and as deep as 6 feet in isolated areas. On the drawings, the PCB concentrations have been color coded to reflect values falling in one of three ranges: brown for concentrations exceeding 50 mg/kg, yellow for concentrations between 50 and 1 mg/kg, and green for concentrations less than 1 mg/kg. The number of samples having PCB concentrations falling in one of the three ranges is as follows:

- 28 samples contained PCB concentrations greater than 50 mg/kg,
- 192 samples contained PCB concentrations between 1 and 50 mg/kg, and
- 241 samples contained PCB concentrations less than 1 mg/kg.

3 Interim Measures Activities

As mentioned previously in Section 1.0, IM activities consist of clearing the construction area, removing and segregating affected sediments, managing affected sediments prior to ALDOT roadway construction work, and providing erosion and sediment controls in the construction areas. These activities are described in the following subsections.

3.1 Clearing

Trees will be cleared within the construction ROW by cutting at or near ground surface. As a result, grubbing will not be required. The trees will be reduced to chips that will be spread over an area within the ROW, but outside the proposed roadway embankment. The total area that requires clearing is approximately 6.2 acres, the limits of which are shown on Sheet No. 11 of the drawings.

3.2 Utility Corridor Excavation

The 4-inch gas and 20-inch water pipelines on the south side of Choccolocco Creek will be rerouted within a utility corridor. Affected sediments will be excavated in lifts as determined by sampling performed during the environmental investigation. The excavation will be performed along the centerline of the utility corridor using a surface width of 27 feet and 1H:1V sideslopes.

Excavation limits (horizontal and vertical) are listed on Table 1 provided on Sheet No. 12 of the drawings. Confirmation soil sampling will take place after initial excavation to verify that remaining soils from the floor of the excavation have PCB concentrations below the 1 mg/kg limit. Should confirmation sampling indicate PCB levels exceed 1 mg/kg, an additional one-foot will be excavated to a maximum of 6 feet below grade. Once excavation depths reach six feet, no more excavation will be performed and a geotextile fabric will be installed as a marker if excavation floor PCB levels are above 1 mg/kg. The details of the confirmation soil sampling program are described in Section 3.5.

Utility corridor excavation will be expanded, as shown on Sheet No. 12 of the drawings, to create a clean zone for two pipe jacking pits. These pits, one on each bank of Choccolocco Creek, will be 32 feet wide by 30 feet long. Pipe jacking pits will be excavated until confirmation sampling indicates PCB levels at or below 1 mg/kg. If either pipe jacking pit excavation reaches the total depth required by the utility companies for pipe jacking and PCB levels are above 1 mg/kg, an additional one foot of soil will be excavated and one foot of clean backfill will be added to create a clean work zone for pipe jacking.

3.3 Drainage Ditch Excavation

The drainage ditch located adjacent to the toe of the embankment near the creek has been found to contain affected sediments. Excavation will be performed along the centerline of the drainage ditch using a surface width of 27 feet and 2H:1V sideslopes. Excavation limits (horizontal and vertical) are listed on Table 2 provided on Sheet No. 13 of the drawings. Confirmation sampling will be performed using the same protocol as described in Sections 3.2 and 3.5. Total excavation depths will not exceed 4 feet below grade. In areas of the drainage ditch excavation where confirmation sampling of the 4 feet excavation indicate PCB levels above 1 mg/kg, a geotextile marker will be installed.

3.4 Bridge Bent Excavation

Sediment excavation will be performed in the footprint of the proposed Bridge Bent 4 as shown on Sheet No. 14 of the drawings. Excavation limits (horizontal and vertical) are listed on Table 3 provided on Sheet No. 14 of the drawings. Confirmation sampling will be performed to verify removal of sediments exhibiting PCB concentrations exceeding 50 mg/kg. Should confirmation sampling indicated PCB levels above 1 mg/kg, a geotextile marker will be installed.

3.5 Confirmation Sampling

Confirmation sampling will be carried out in the bottom of all excavated areas to document the residual concentrations of PCBs left in place. The sampling program will be consistent with the

requirements of 40 CFR 761 Subpart O in the areas where existing test results suggest that PCB concentrations could equal or exceed 50 mg/kg. Within these areas (between NERB-14 and NERB-23 in the utility corridor, between the creek and midway between NBCC-3 and NBCC-4 in the drainage ditch north of the creek, and in the excavation for Bent 4), samples will be obtained on a 5 foot (approximately 1.5 m) grid. The samples from two grid intervals along and transverse to the excavation (i. e., on a 10 foot grid) will be composited for PCB analyses.

Elsewhere within the excavated areas, samples will be obtained on transects spaced at 25 foot intervals. Three samples will be obtained along each transect (on the centerline and near the edges of the excavation) and these samples will be composited for PCB analyses. All PCB analyses for confirmatory purposes will be performed using gas chromatography.

4 Excavated Sediment Management

Soils excavated from the ditch (approximately 300 cubic yards [CY]) and the utility corridor (approximately 3,700 CY) with PCB concentrations greater than 1 mg/kg but less than 50 mg/kg will be placed in a temporary stockpile within the proposed roadway embankment. Excavated soil with PCB concentrations greater than 50 mg/kg will be segregated and disposed of off-site at an approved landfill (approximately 1,000 CY) in accordance with the requirements of TSCA.

The results of the existing investigations are sufficient to plan the excavation of those areas likely to contain soils with PCB concentrations equal to, or greater than, 50 mg/kg. However, additional testing will be required during the excavation to define the limits of these materials and to confirm that the excavated soil is being appropriately disposed of. That testing will be carried out using a combination of immunoassay screening (to provide preliminary results) and laboratory testing (to confirm the immunoassay screening). However, it is possible that a mobile laboratory equipped with a gas chromatograph will be established on site, in which case immunoassay screening will not be used.

Whichever method is used for field control, minimal on-site staging will occur. Soils containing PCBs at concentrations in excess of 50 mg/kg will be loaded directly into covered roll-off containers in a secure staging area. The container will remain on site only long enough to obtain laboratory confirmation of its contents and will then be transported to a TSCA-approved landfill for disposal.

Soils which contain PCBs at concentrations greater than 1 mg/kg, but less than 50 mg/kg, will be immediately transferred to the temporary stockpile location. The soils will be spread in layers and will be compacted to satisfy ALDOT's specifications for embankment fill. The temporary

stockpile(s) will be covered with a geotextile to prevent erosion and off-site migration. In addition, the stockpile(s) will be surrounded by silt fencing and, where necessary, straw bales.

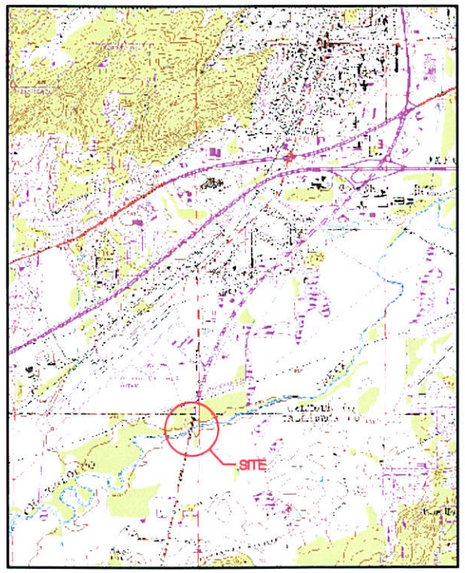
5 Erosion and Sediment Controls

Erosion protection will be provided in construction areas (those having excavation or disturbed soils, approximately 7.0 acres). This protection includes coverage of all exposed soil areas with 6-ounce non-woven type geotextile. Sandbags will be used as temporary anchors to hold the geotextile in place until the exposed areas are covered and vegetated during bridge construction.

Control of sediment migration will be managed through the installation of silt fencing along the tributary, the drainage ditch on the north side of the creek, and on Choccolocco Creek adjacent to construction areas and the construction of a check dams in the tributary and the drainage ditch. The purpose of the silt fencing and the check dams is to minimize the movement of sediment from disturbed areas into surface water pathways.

In order to ensure that the erosion and sediment control measures are effective, an in-stream monitoring program will be implemented during construction. The turbidity of the water will be measured daily both upstream and downstream of the site while excavation is in progress. If the turbidity shows a significant increase in the downstream direction (at least one order of magnitude), additional upstream and downstream water samples will be collected. These samples will be split and one of the split portions from each sample will be filtered. The solid residue from the filtered samples will be analyzed for PCBs. The other portions of the split samples (i.e., the unfiltered or whole water portions) will be analyzed for both PCBs and total suspended solids content. Additional erosion control measures will also be constructed around the work site.

Erosion and sediment control features are shown on Sheet No. 15 of the drawings.

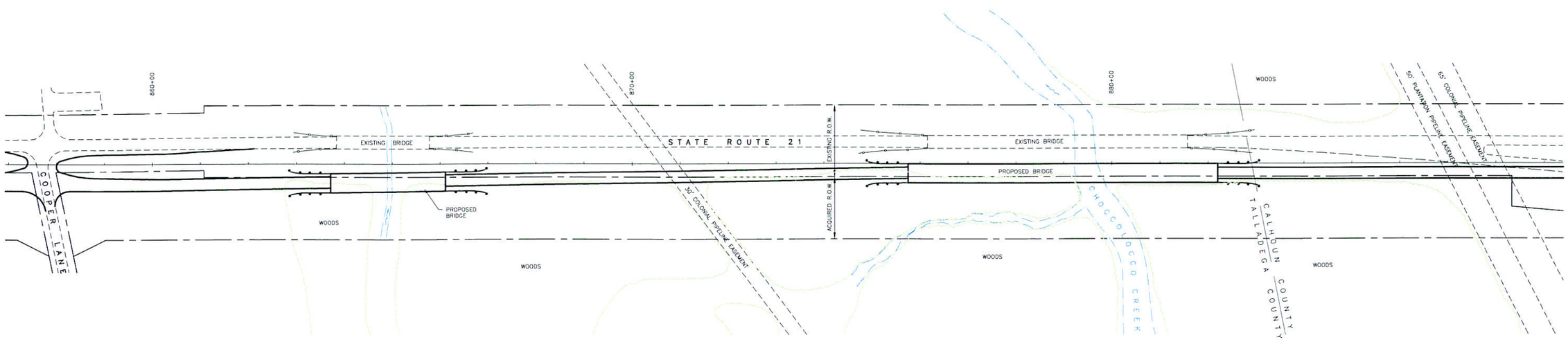


VICINITY MAP

SCALE: 1" = 2000'

RFI RESULTS AND INTERIM MEASURES PLAN

ALABAMA
DEPARTMENT OF TRANSPORTATION
PROJECT NO. STPAA-62(15)
ON S.R. 21 FROM COOPER LANE TO EXISTING 4-LANE AT OXFORD
TALLADEGA/CALHOUN COUNTIES



NOTE:
PROPOSED BRIDGE ALIGNMENT AND BENT LOCATIONS SHOWN HEREIN WERE TAKEN FROM DRAWINGS RECEIVED FROM THE ALABAMA DEPARTMENT OF TRANSPORTATION, PROJECT NO. STPAA-62 (24), ON DECEMBER 14, 1999.

REV	DESCRIPTION OF REVISION	BY	DATE
0			

DATE: JAN 03, 2000 TIME: 9:40 AM PLOT # 27 DRAWING NAME: MCOVERSHT.DWG

SOLUTIA
300 Birmingham Highway
Anniston, AL 36201

URS Greiner Woodward Clyde
7600 West Tidwell Road, Suite 600
Houston, Texas 77040
United States of America

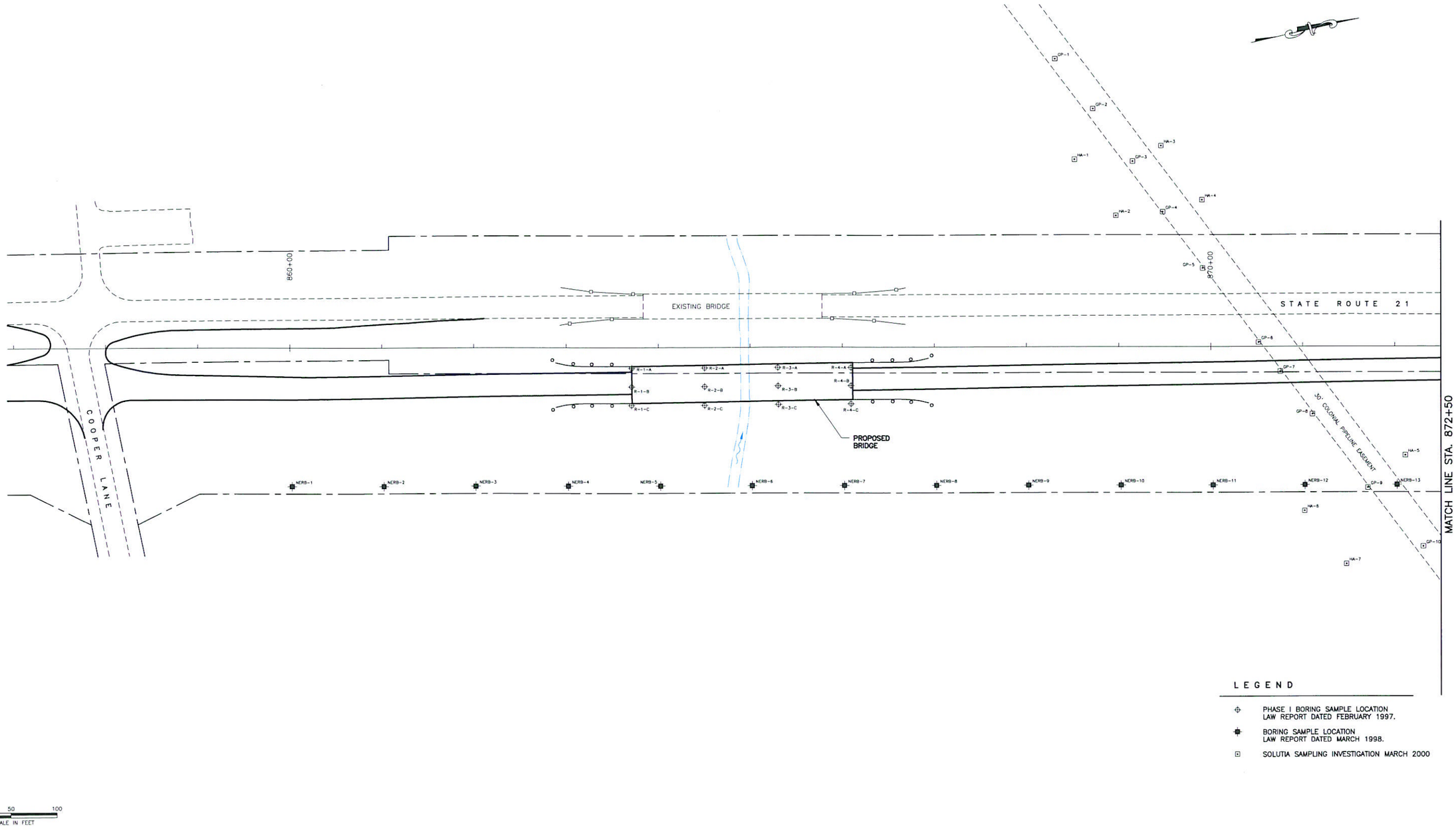
WARNING
0 ½ 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED BY:	
DRAWN BY:	SAF/BH
CHECKED BY:	
PEER REVIEWER:	
PROJ MANAGER:	
DATE:	03/22/00

CHOCCOLOCCO CREEK
OXFORD, ALABAMA

SITE MAP

REVISION: 0
PROJECT 460097T143
DRAWING
SHEET 1 OF 15



LEGEND

- PHASE I BORING SAMPLE LOCATION LAW REPORT DATED FEBRUARY 1997.
- BORING SAMPLE LOCATION LAW REPORT DATED MARCH 1998.
- SOLUTIA SAMPLING INVESTIGATION MARCH 2000

REV	DESCRIPTION OF REVISION	BY	DATE
0			

SOLUTIA
300 Birmingham Highway
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7600 West Tidwell Road, Suite 600
Houston, Texas 77040
United States of America

WARNING
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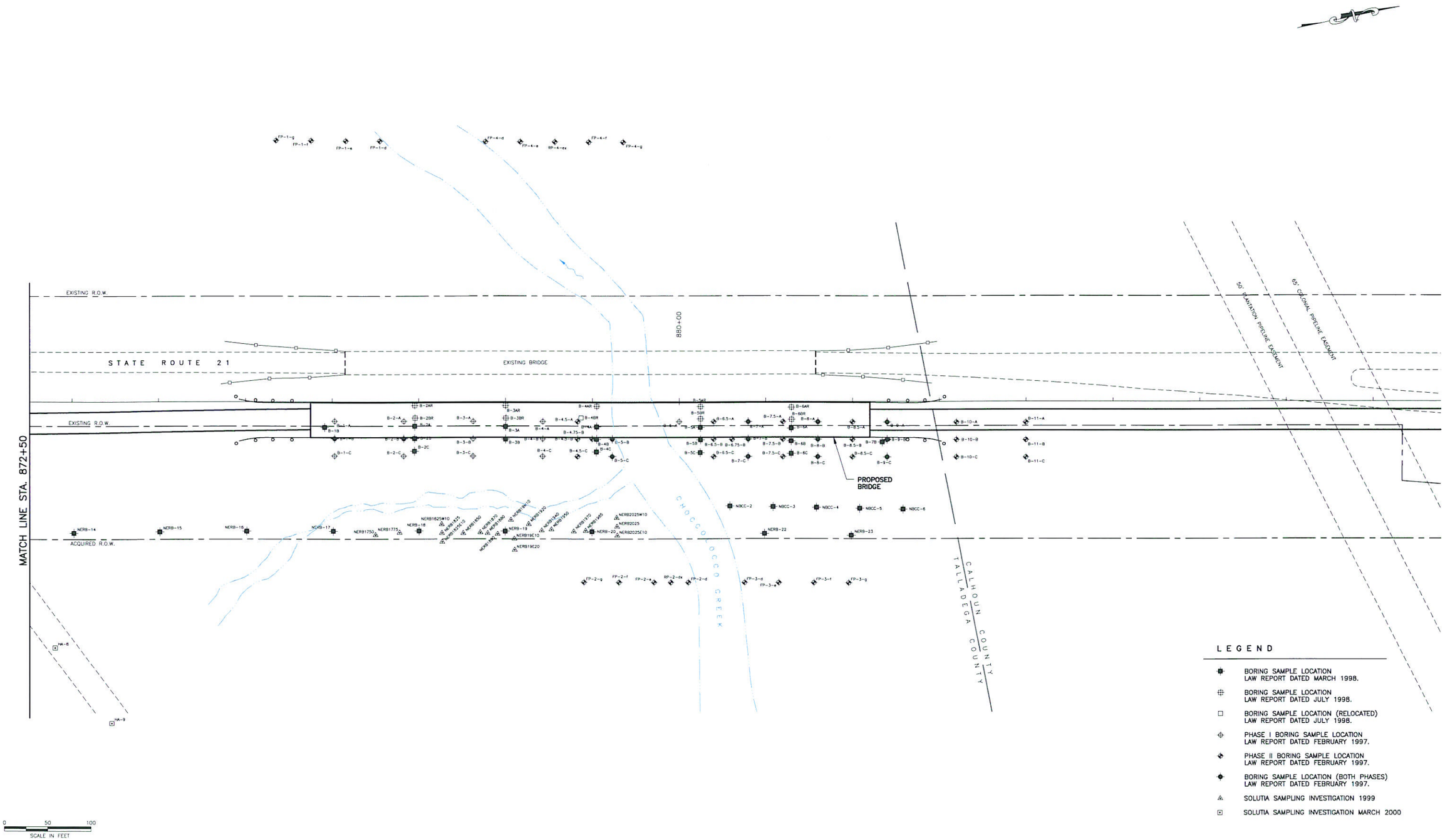
PROJ MANAGER:	
DATE:	03/22/00

CHOCCOLOCCO CREEK
OXFORD, ALABAMA

INTERIM MEASURES PLAN
RELIEF BRIDGE
RFI RESULTS

REVISION: 0
PROJECT 460097T143
DRAWING
SHEET 2 OF 15

DATE: JAN 03, 2000 TIME: 9:39 AM PLOT #:10 DRAWING NAME: 97T143.02.DWG



LEGEND

- BORING SAMPLE LOCATION LAW REPORT DATED MARCH 1998.
- BORING SAMPLE LOCATION LAW REPORT DATED JULY 1998.
- BORING SAMPLE LOCATION (RELOCATED) LAW REPORT DATED JULY 1998.
- PHASE I BORING SAMPLE LOCATION LAW REPORT DATED FEBRUARY 1997.
- PHASE II BORING SAMPLE LOCATION LAW REPORT DATED FEBRUARY 1997.
- BORING SAMPLE LOCATION (BOTH PHASES) LAW REPORT DATED FEBRUARY 1997.
- SOLUTIA SAMPLING INVESTIGATION 1999
- SOLUTIA SAMPLING INVESTIGATION MARCH 2000

REV	DESCRIPTION OF REVISION	BY	DATE
0			

SOLUTIA
300 Birmingham Highway
Anniston, AL 36201

URS Greiner Woodward Clyde
7600 West Tidwell Road, Suite 600
Houston, Texas 77040
United States of America

WARNING
0 ½ 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED BY:
DRAWN BY: SAF/BH
CHECKED BY:
PEER REVIEWER:
PROJ MANAGER:
DATE: 03/22/00

CHOCCOLOCCO CREEK
OXFORD, ALABAMA

INTERIM MEASURES PLAN
MAIN BRIDGE
RFI RESULTS

REVISION: 0
PROJECT 460097T143
DRAWING
SHEET 3 OF 15

DATE: DEC 30, 1999 TIME: 8:55 AM PLOT BY: DRAWING NAME: 97T143O3.DWG

R-1-A	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	0.052

R-1-B	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	0.050

R-1-C	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	0.055

R-3-A	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	19.5
2 – 4	ND
4 – 6	ND

R-3-B	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	26.5
2 – 4	ND
4 – 6	ND

R-3-C	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	26.4
2 – 4	ND
4 – 6	ND

R-4-A	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	0.539

R-4-B	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	0.095

R-4-C	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	ND

860+00

EXISTING BRIDGE

870+00

STATE ROUTE 21

COOPER LANE

PROPOSED BRIDGE

FOR SAMPLING DATA WITHIN THIS SHADED AREA SEE SHEET 6

30' COLONIAL PIPELINE EASEMENT

MATCH LINE STA. 872+50

NERB-1	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	ND
2 – 4	ND

NERB-2	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	ND
2 – 4	ND
4 – 6	ND

NERB-3	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	ND
2 – 4	ND
4 – 6	ND

NERB-4	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	ND
2 – 4	ND
4 – 6	ND

NERB-5	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	ND
2 – 4	0.046
4 – 6	ND

R-2-A	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	0.048

R-2-B	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	ND

R-2-C	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	ND

NERB-6	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	0.367
2 – 4	ND
4 – 6	ND

R-3.5-C	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	0.321
2 – 4	ND
4 – 6	ND

R-3.5-B	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	ND
2 – 4	ND
4 – 6	ND

R-3.5-A	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	ND
2 – 4	ND
4 – 6	ND

NERB-7	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	7.27
2 – 4	0.588
4 – 6	0.617

NERB-8	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	4.34
2 – 4	0.306
4 – 6	0.053

NERB-9	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	0.382
2 – 4	0.085
4 – 6	0.046

NERB-10	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	3.46
2 – 4	0.071
4 – 6	0.176

NERB-11	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	1.45
2 – 4	7.27
4 – 6	0.044

NERB-12	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	0.230
2 – 4	0.102
4 – 6	0.041

NERB-13	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	3.32
2 – 4	ND
4 – 6	0.075

LEGEND

- PHASE I BORING SAMPLE LOCATION LAW REPORT DATED FEBRUARY 1997.
- PHASE II BORING SAMPLE LOCATION LAW REPORT DATED FEBRUARY 1997.
- BORING SAMPLE LOCATION LAW REPORT DATED MARCH 1998.
- SOLUTIA SAMPLING INVESTIGATION MARCH 2000
- PCB CONCENTRATION <1 ppm
- PCB CONCENTRATION 1 – 50 ppm
- PCB CONCENTRATION >50 ppm
- ND PCB BELOW DETECTION LIMITS

0 50 100
SCALE IN FEET

REV	DESCRIPTION OF REVISION	BY	DATE
0			

SOLUTIA
300 Birmingham Highway
Anniston, AL 36201

URS Greiner Woodward Clyde
7600 West Tidwell Road, Suite 600
Houston, Texas 77040
United States of America

WARNING
0 ½ 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED BY:	
DRAWN BY:	SAF/BH
CHECKED BY:	
PEER REVIEWER:	
PROJ MANAGER:	
DATE:	03/22/00

CHOCCOLOCCO CREEK
OXFORD, ALABAMA

INTERIM MEASURES PLAN
RELIEF BRIDGE
RFI RESULTS

REVISION: 0
PROJECT 460097T143
DRAWING
SHEET 4 OF 15

DATE: JAN 03, 2000 TIME: 9:39 AM PLOT # 8 DRAWING NAME: 9711A304.DWG

FP–1–f	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	4.61

FP–1–g	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	3.97

FP–1–e	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	15.4

FP–1–d	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	18

FP–4–e	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	2.13

FP–4–d	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	26.4

RP–4–ex	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	3.11

FP–4–f	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	0.07

FP–4–g	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	1.24

EXISTING R.O.W.

STATE ROUTE 21

EXISTING R.O.W.

FOR SAMPLING DATA WITHIN THIS SHADED AREA SEE SHEET 7

EXISTING BRIDGE

880+00

PROPOSED BRIDGE

FOR SAMPLING DATA WITHIN THIS SHADED AREA SEE SHEET 9

50' SOUTHERN PIPELINE EASEMENT

65' COLONIAL PIPELINE EASEMENT

MATCH LINE STA. 872+50

NERB–14	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	24.80
2 – 4	0.321
4 – 6	0.446

NERB–15	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	31.80
2 – 4	0.292
4 – 6	0.649

ACQUIRED R.O.W.

FOR SAMPLING DATA WITHIN THIS SHADED AREA SEE SHEET 6

FOR SAMPLING DATA WITHIN THIS SHADED AREA SEE SHEET 8

NERB–16	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	6.43
2 – 4	5.55
4 – 6	0.786

CHOCCOLOCCO CREEK

CALHOUN COUNTY

TALLADEGA COUNTY

FOR SAMPLING DATA WITHIN THIS SHADED AREA SEE SHEET 10

FP–2–g	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	11.8

FP–2–f	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	8.25

FP–2–e	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	10.1

RP–2–dx	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	9.19

FP–3–d	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	0.254

FP–3–e	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	22.7

FP–2–d	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	ND

FP–3–g	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	ND

FP–3–f	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	0.09

0 50 100
SCALE IN FEET

LEGEND

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- SOLUTIA SAMPLING INVESTIGATION MARCH 2000
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- PCB CONCENTRATION 1 – 50 ppm
- PCB CONCENTRATION >50 ppm
- ND PCB BELOW DETECTION LIMITS

REV	DESCRIPTION OF REVISION	BY	DATE

SOLUTIA
300 Birmingham Highway
Anniston, AL 36201

URS Greiner Woodward Clyde
7600 West Tidwell Road, Suite 600
Houston, Texas 77040
United States of America

WARNING
0 ½ 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

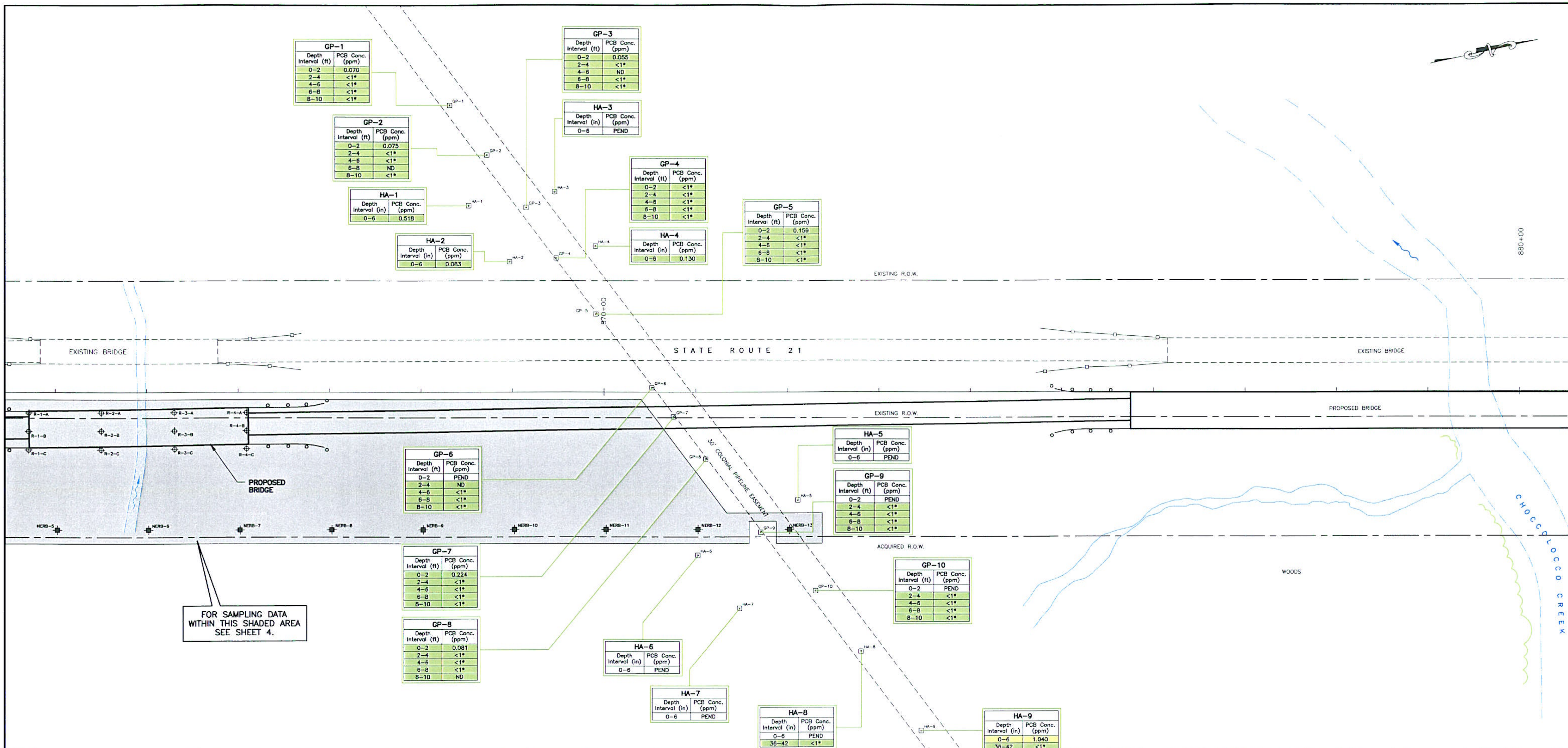
DESIGNED BY:	
DRAWN BY:	SAF/BH
CHECKED BY:	
PEER REVIEWER:	
PROJ MANAGER:	
DATE:	03/22/00

CHOCCOLOCCO CREEK
OXFORD, ALABAMA

INTERIM MEASURES PLAN
MAIN BRIDGE
RFI RESULTS

REVISION: 0
PROJECT 460097T143
DRAWING
SHEET 5 OF 15

DATE: DEC 30, 1999 TIME: 8:31 AM PLOT #:13 DRAWING NAME: 97T143.DWG



GP-1

Depth Interval (ft)	PCB Conc. (ppm)
0-2	0.070
2-4	<1*
4-6	<1*
6-8	<1*
8-10	<1*

GP-2

Depth Interval (ft)	PCB Conc. (ppm)
0-2	0.075
2-4	<1*
4-6	<1*
6-8	ND
8-10	<1*

HA-1

Depth Interval (in)	PCB Conc. (ppm)
0-6	0.518

HA-2

Depth Interval (in)	PCB Conc. (ppm)
0-6	0.083

GP-3

Depth Interval (ft)	PCB Conc. (ppm)
0-2	0.055
2-4	<1*
4-6	ND
6-8	<1*
8-10	<1*

HA-3

Depth Interval (in)	PCB Conc. (ppm)
0-6	PEND

GP-4

Depth Interval (ft)	PCB Conc. (ppm)
0-2	<1*
2-4	<1*
4-6	<1*
6-8	<1*
8-10	<1*

HA-4

Depth Interval (in)	PCB Conc. (ppm)
0-6	0.130

GP-5

Depth Interval (ft)	PCB Conc. (ppm)
0-2	0.159
2-4	<1*
4-6	<1*
6-8	<1*
8-10	<1*

HA-5

Depth Interval (in)	PCB Conc. (ppm)
0-6	PEND

GP-9

Depth Interval (ft)	PCB Conc. (ppm)
0-2	PEND
2-4	<1*
4-6	<1*
6-8	<1*
8-10	<1*

GP-6

Depth Interval (ft)	PCB Conc. (ppm)
0-2	PEND
2-4	ND
4-6	<1*
6-8	<1*
8-10	<1*

GP-7

Depth Interval (ft)	PCB Conc. (ppm)
0-2	0.224
2-4	<1*
4-6	<1*
6-8	<1*
8-10	<1*

GP-10

Depth Interval (ft)	PCB Conc. (ppm)
0-2	PEND
2-4	<1*
4-6	<1*
6-8	<1*
8-10	<1*

GP-8

Depth Interval (ft)	PCB Conc. (ppm)
0-2	0.081
2-4	<1*
4-6	<1*
6-8	<1*
8-10	ND

HA-6

Depth Interval (in)	PCB Conc. (ppm)
0-6	PEND

HA-7

Depth Interval (in)	PCB Conc. (ppm)
0-6	PEND

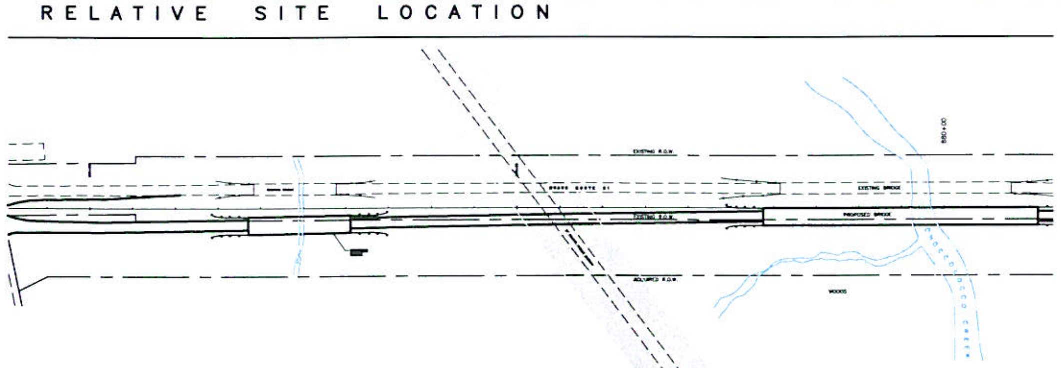
HA-8

Depth Interval (in)	PCB Conc. (ppm)
0-6	PEND
36-42	<1*

HA-9

Depth Interval (in)	PCB Conc. (ppm)
0-6	1.040
36-42	<1*

RELATIVE SITE LOCATION



LEGEND

- ⌖ PHASE I BORING SAMPLE LOCATION LAW REPORT DATED FEBRUARY 1997.
- ■ BORING SAMPLE LOCATION LAW REPORT DATED MARCH 1998.
- ▣ SOLUTIA SAMPLING INVESTIGATION MARCH 2000
- (green) PCB CONCENTRATION <1 ppm
- (yellow) PCB CONCENTRATION 1 - 50 ppm
- ND PCB BELOW DETECTION LIMITS
- PEND ANALYTICAL RESULTS PENDING
- * INDICATES FIELD SCREENING RESULTS

0 50 100
SCALE IN FEET

REV	DESCRIPTION OF REVISION	BY	DATE

SOLUTIA
300 Birmingham Highway
Anniston, AL 36201

URS Greiner Woodward Clyde
7600 West Tidwell Road, Suite 600
Houston, Texas 77040
United States of America

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED BY:
DRAWN BY: SAF/BH
CHECKED BY:
PEER REVIEWER:
PROJ MANAGER:
DATE: 03/22/00

CHOCCOLOCCO CREEK
OXFORD, ALABAMA

INTERIM MEASURES PLAN
COLONIAL PIPELINE EASEMENT
RFI RESULTS

REVISION: 0
PROJECT 460097T143
DRAWING
SHEET 6 OF 15

DATE: JAN 03, 2000 TIME: 9:39 AM PLOT # 10 DRAWING NAME: 97T14310.DWG

STATE ROUTE 21

EXISTING BRIDGE

PROPOSED BRIDGE

BENT 1 | BENT 2 | BENT 3 | BENT 4 | BENT 5

880+00

CHOCCOLOCCO CR

B-2-A	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	1.7

B-2-B	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	9.034
2 – 4	0.099
4 – 6	ND

B-2-C	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	0.240

B-2BR	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	1.33
2 – 4	ND
4 – 6	ND
6 – 8	ND
8 – 10	ND

B-2AR	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	4.93
2 – 4	ND
4 – 6	ND
6 – 8	ND
8 – 10	ND

B-3AR	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	22.20
2 – 4	0.057
4 – 6	0.124
6 – 8	ND
8 – 10	ND

B-3BR	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	4.70
2 – 4	ND
4 – 6	ND
6 – 8	ND
8 – 10	ND

B-4-C	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	3.97

B-4-B	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	1.98

B-4-A	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	ND

B-4BR	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	32.90
2 – 4	9.08
4 – 6	ND
6 – 8	ND
8 – 10	ND

B-4.75-B	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	3.72

B-4AR	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	8.17
2 – 4	4.81
4 – 6	ND
6 – 8	ND
8 – 10	ND

B-5-B	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	30.7
2 – 4	1.4
4 – 6	0.122

B-5-C	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	33.7
2 – 4	1.3
4 – 6	0.051

B-1-A	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	0.082

B-1B	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	0.330
2 – 4	0.202
4 – 6	0.193
6 – 8	ND
8 – 10	ND

B-1-B	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	9.72
2 – 4	0.125
4 – 6	ND

B-1-C	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	ND

B-2C	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	11.10
2 – 4	0.260
4 – 6	ND
6 – 8	ND
8 – 10	ND

B-2B	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	6.79
2 – 4	ND
4 – 6	0.142
6 – 8	ND
8 – 10	ND

B-2A	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	ND
2 – 4	ND
4 – 6	ND
6 – 8	ND
8 – 10	ND

B-3-C	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	3.69

B-3-B	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	0.067

B-3-A	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	0.104

B-3B	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	2.54
2 – 4	ND
4 – 6	1.82
6 – 8	ND
8 – 10	ND

B-3A	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	0.512
2 – 4	ND
4 – 6	ND
6 – 8	ND
8 – 10	0.508

B-4.5-A	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	38.3
2 – 4	0.728
4 – 6	17.33

B-4.5-B	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	8.08
2 – 4	ND
4 – 6	ND

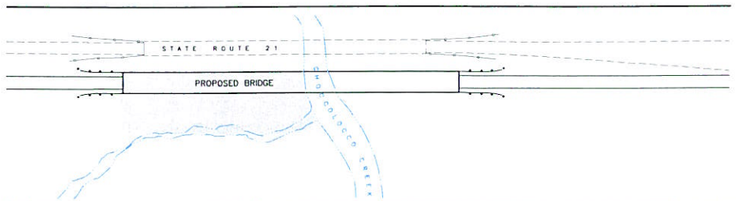
B-4.5-C	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	12.4
2 – 4	ND
4 – 6	ND

B-4A	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	7.52
2 – 4	2.70
4 – 6	ND
6 – 8	ND
8 – 10	0.109

B-4B	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	16.70
2 – 4	ND
4 – 6	ND
6 – 8	ND
8 – 10	0.120

B-4C	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	16.90
2 – 4	ND
4 – 6	ND
6 – 8	0.176
8 – 10	ND

RELATIVE SITE LOCATION



LEGEND

- BORING SAMPLE LOCATION LAW REPORT DATED MARCH 1998.
- BORING SAMPLE LOCATION LAW REPORT DATED JULY 1998.
- BORING SAMPLE LOCATION (RELOCATED) LAW REPORT DATED JULY 1998.
- PHASE I BORING SAMPLE LOCATION LAW REPORT DATED FEBRUARY 1997.
- PHASE II BORING SAMPLE LOCATION LAW REPORT DATED FEBRUARY 1997.
- BORING SAMPLE LOCATION (BOTH PHASES) LAW REPORT DATED FEBRUARY 1997.
- PCB CONCENTRATION <1 ppm
- PCB CONCENTRATION 1 – 50 ppm
- PCB CONCENTRATION >50 ppm
- ND PCB BELOW DETECTION LIMITS

0 20 40
SCALE IN FEET

REV	DESCRIPTION OF REVISION	BY	DATE
0			

DATE: DEC 30, 1999 TIME: 9:21 AM PLOT: 8.24 DRAWING NAME: 97114506.DWG

SOLUTIA
300 Birmingham Highway
Anniston, Alabama 36201

URS Greiner Woodward Clyde
7600 West Tidwell Road, Suite 600
Houston, Texas 77040
United States of America

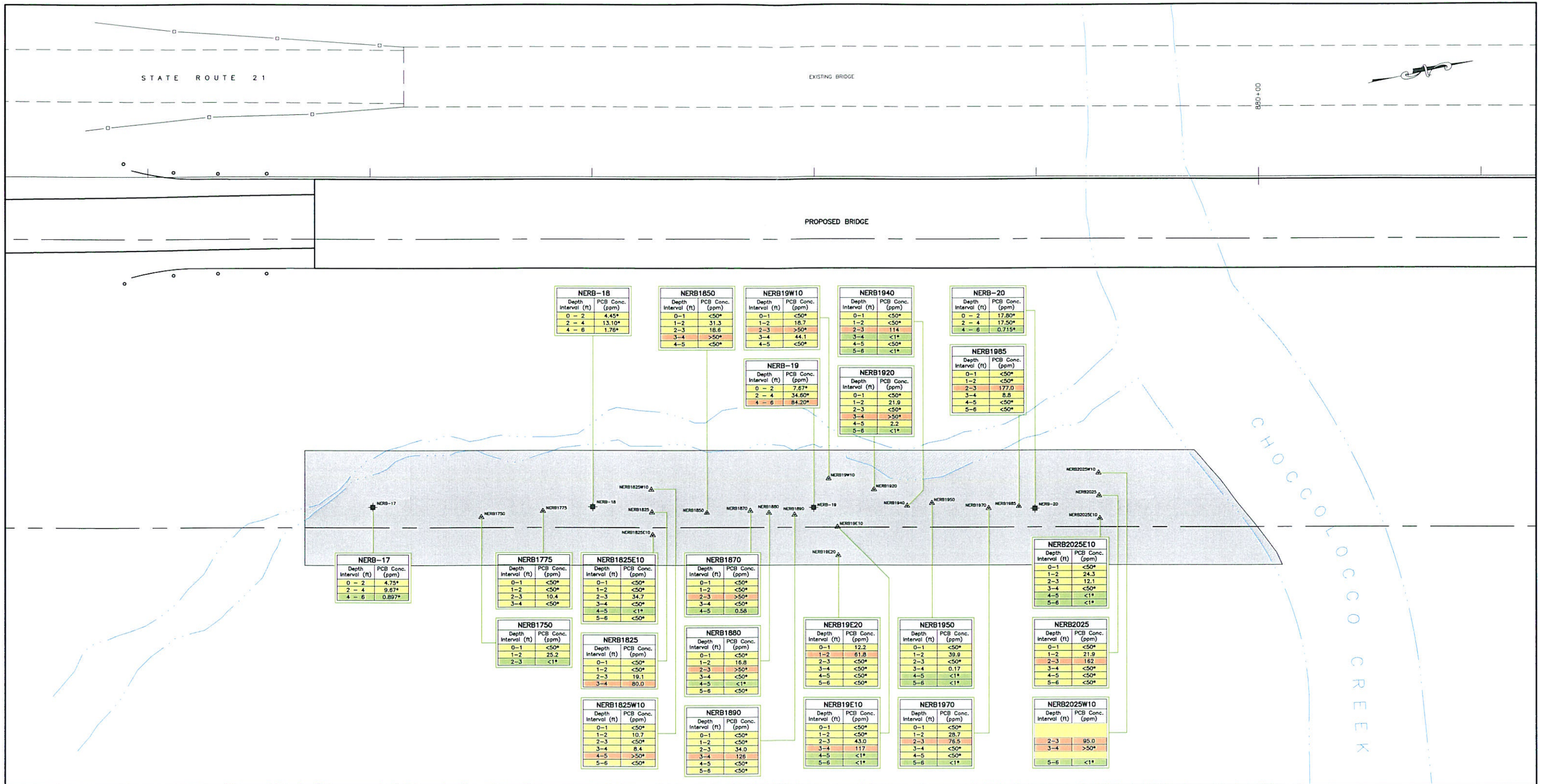
WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED BY:	
DRAWN BY:	SAF/BH
CHECKED BY:	
PEER REVIEWER:	
PROJ MANAGER:	
DATE:	03/22/00

CHOCCOLOCCO CREEK
OXFORD, ALABAMA

INTERIM MEASURES PLAN
MAIN BRIDGE
RFI RESULTS

REVISION:	0
PROJECT	460097T143
DRAWING	
SHEET	7 OF 15



NERB-18

Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	4.45*
2 – 4	13.10*
4 – 6	1.76*

NERB1850

Depth Interval (ft)	PCB Conc. (ppm)
0–1	<50*
1–2	31.3
2–3	18.6
3–4	>50*
4–5	<50*

NERB19W10

Depth Interval (ft)	PCB Conc. (ppm)
0–1	<50*
1–2	18.7
2–3	>50*
3–4	44.1
4–5	<50*

NERB1940

Depth Interval (ft)	PCB Conc. (ppm)
0–1	<50*
1–2	<50*
2–3	114
3–4	<1*
4–5	<50*
5–6	<1*

NERB–20

Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	17.80*
2 – 4	17.50*
4 – 6	0.715*

NERB–19

Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	7.67*
2 – 4	34.60*
4 – 6	84.20*

NERB1920

Depth Interval (ft)	PCB Conc. (ppm)
0–1	<50*
1–2	21.9
2–3	<50*
3–4	>50*
4–5	2.2
5–6	<1*

NERB1985

Depth Interval (ft)	PCB Conc. (ppm)
0–1	<50*
1–2	<50*
2–3	177.0
3–4	8.8
4–5	<50*
5–6	<50*

NERB-17

Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	4.75*
2 – 4	9.67*
4 – 6	0.897*

NERB1775

Depth Interval (ft)	PCB Conc. (ppm)
0–1	<50*
1–2	<50*
2–3	10.4
3–4	<50*

NERB1825E10

Depth Interval (ft)	PCB Conc. (ppm)
0–1	<50*
1–2	<50*
2–3	34.7
3–4	<50*
4–5	<1*
5–6	<50*

NERB1870

Depth Interval (ft)	PCB Conc. (ppm)
0–1	<50*
1–2	<50*
2–3	>50*
3–4	<50*
4–5	0.58

NERB2025E10

Depth Interval (ft)	PCB Conc. (ppm)
0–1	<50*
1–2	24.3
2–3	12.1
3–4	<50*
4–5	<1*
5–6	<1*

NERB1750

Depth Interval (ft)	PCB Conc. (ppm)
0–1	<50*
1–2	25.2
2–3	<1*

NERB1825

Depth Interval (ft)	PCB Conc. (ppm)
0–1	<50*
1–2	<50*
2–3	19.1
3–4	80.0

NERB1880

Depth Interval (ft)	PCB Conc. (ppm)
0–1	<50*
1–2	16.8
2–3	>50*
3–4	<50*
4–5	<1*
5–6	<50*

NERB19E20

Depth Interval (ft)	PCB Conc. (ppm)
0–1	12.2
1–2	61.8
2–3	<50*
3–4	<50*
4–5	<50*
5–6	<50*

NERB1950

Depth Interval (ft)	PCB Conc. (ppm)
0–1	<50*
1–2	39.9
2–3	<50*
3–4	0.17
4–5	<1*
5–6	<1*

NERB2025

Depth Interval (ft)	PCB Conc. (ppm)
0–1	<50*
1–2	21.9
2–3	162
3–4	<50*
4–5	<50*
5–6	<50*

NERB1825W10

Depth Interval (ft)	PCB Conc. (ppm)
0–1	<50*
1–2	10.7
2–3	<50*
3–4	8.4
4–5	>50*
5–6	<50*

NERB1890

Depth Interval (ft)	PCB Conc. (ppm)
0–1	<50*
1–2	<50*
2–3	34.0
3–4	126
4–5	<50*
5–6	<50*

NERB19E10

Depth Interval (ft)	PCB Conc. (ppm)
0–1	<50*
1–2	<50*
2–3	43.0
3–4	117
4–5	<1*
5–6	<1*

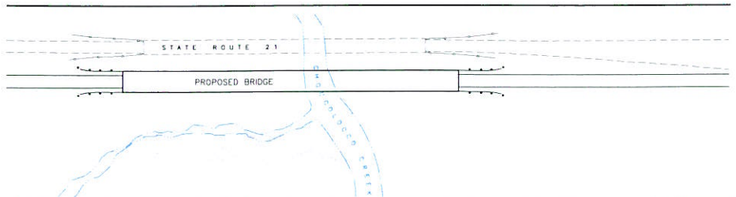
NERB1970

Depth Interval (ft)	PCB Conc. (ppm)
0–1	<50*
1–2	28.7
2–3	76.5
3–4	<50*
4–5	<50*
5–6	<1*

NERB2025W10

Depth Interval (ft)	PCB Conc. (ppm)
2–3	95.0
3–4	>50*
5–6	<1*

RELATIVE SITE LOCATION



LEGEND

- BORING SAMPLE LOCATION LAW REPORT DATED MARCH 1998.
- SOLUTIA SAMPLING INVESTIGATION 1999
- * INDICATES FIELD SCREENING RESULTS

- PCB CONCENTRATION <1 ppm
- PCB CONCENTRATION 1 – 50 ppm
- PCB CONCENTRATION >50 ppm

0 20 40
SCALE IN FEET

REV	DESCRIPTION OF REVISION	BY	DATE
0			

SOLUTIA
300 Birmingham Highway
Anniston, Alabama 36201

URS Greiner Woodward Clyde
7600 West Tidwell Road, Suite 600
Houston, Texas 77040
United States of America

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED BY:
DRAWN BY: SAF/BH
CHECKED BY:
PEER REVIEWER:
PROJ MANAGER:
DATE: 03/22/00

CHOCCOLOCCO CREEK
OXFORD, ALABAMA

INTERIM MEASURES PLAN
MAIN BRIDGE
RFI RESULTS

REVISION: 0
PROJECT 460097T143
DRAWING
SHEET 8 OF 15

DATE: DEC 30, 1999 TIME: 9:19 AM PLOT #: 22 DRAWING NAME: 97114307.DWG

B-5AR	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	15.80
2 – 4	137.00
4 – 6	1.79
6 – 8	ND
8 – 10	0.138

B-5BR	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	23.20
2 – 4	6.54
4 – 6	0.400
6 – 8	ND
8 – 10	ND

B-6-A	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	78.7
2 – 4	54.7
4 – 6	0.431

B-6.5-A	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	4.34
2 – 4	23
4 – 6	0.766

B-6.5-B	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	16.1
2 – 4	29.8
4 – 6	2.34

B-6.5-C	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	11.2
2 – 4	16.1
4 – 6	2.64

B-6.75-B	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	7.44

B-7.5-C	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	6.39
2 – 4	8.34
4 – 6	0.326

B-7.5-B	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	4.94
2 – 4	22.4
4 – 6	0.255

B-7.5-A	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	22.9
2 – 4	3
4 – 6	1.59

B-6AR	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	12.70
2 – 4	0.052
4 – 6	ND
6 – 8	ND
8 – 10	ND

B-6BR	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	25.10
2 – 4	0.076
4 – 6	0.053
6 – 8	ND
8 – 10	ND

B-8.5-A	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	4.11
2 – 4	ND
4 – 6	ND

B-8.5-B	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	3.5
2 – 4	ND
4 – 6	ND

B-8.5-C	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	1.37
2 – 4	ND
4 – 6	ND

B-10-A	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	1.39
2 – 4	ND

B-10-B	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	ND
2 – 4	ND

B-10-C	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	0.977
2 – 4	ND

EXISTING BRIDGE

BENT 3

BENT 4

BENT 5

PROPOSED BRIDGE

CHOCCOLOCCO CREEK

CALHOUN COUNTY

TALLADEGA COUNTY

B-5C	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	40
2 – 4	142.00
4 – 6	ND
6 – 8	0.070
8 – 10	ND

B-5B	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	10.30
2 – 4	105.00
4 – 6	19.00
6 – 8	ND
8 – 10	ND

B-5A	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	4.78
2 – 4	94.50
4 – 6	0.397
6 – 8	0.046
8 – 10	ND

B-7-C	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	68.5
2 – 4	36.7
4 – 6	ND

B-7-B	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	71.5
2 – 4	20.1
4 – 6	0.141

B-7-A	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	77.2
2 – 4	0.202
4 – 6	3.59

B-6C	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	5.44
2 – 4	0.203
4 – 6	0.139
6 – 8	ND
8 – 10	ND

B-6B	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	11.20
2 – 4	0.040
4 – 6	0.067
6 – 8	0.057
8 – 10	ND

B-6A	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	12.40
2 – 4	ND
4 – 6	ND
6 – 8	0.212
8 – 10	0.032

B-8-A	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	88.0
2 – 4	0.055
4 – 6	ND

B-8-B	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	41.3
2 – 4	0.19
4 – 6	0.475

B-8-C	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	40.9
2 – 4	0.233
4 – 6	ND

B-7B	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	0.099
2 – 4	ND
4 – 6	ND
6 – 8	ND
8 – 10	ND

B-9-A	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	5.08
2 – 4	ND
4 – 6	ND

B-9-B	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	0.121
2 – 4	ND
4 – 6	0.06

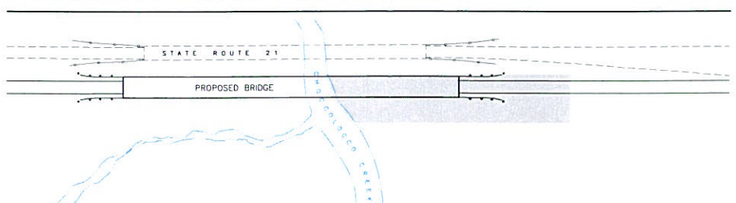
B-9-C	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	0.096
2 – 4	ND
4 – 6	ND

B-11-A	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	ND
2 – 4	ND

B-11-B	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	0.09
2 – 4	0.043

B-11-C	
Depth Interval (ft)	PCB Conc. (ppm)
0 – 2	ND
2 – 4	ND

RELATIVE SITE LOCATION



LEGEND

- BORING SAMPLE LOCATION LAW REPORT DATED MARCH 1998.
- BORING SAMPLE LOCATION LAW REPORT DATED JULY 1998.
- PHASE I BORING SAMPLE LOCATION LAW REPORT DATED FEBRUARY 1997.
- PHASE II BORING SAMPLE LOCATION LAW REPORT DATED FEBRUARY 1997.
- BORING SAMPLE LOCATION (BOTH PHASES) LAW REPORT DATED FEBRUARY 1997.
- PCB CONCENTRATION <1 ppm
- PCB CONCENTRATION 1 – 50 ppm
- PCB CONCENTRATION >50 ppm
- ND PCB BELOW DETECTION LIMITS

0 20 40
SCALE IN FEET

REV	DESCRIPTION OF REVISION	BY	DATE

DATE: DEC 30, 1999 TIME: 9:19 AM PLOT #: 25 DRAWING NAME: 9711A09.DWG

SOLUTIA
300 Birmingham Highway
Anniston, Alabama 36201

URS Greiner Woodward Clyde
7600 West Tidwell Road, Suite 600
Houston, Texas 77040
United States of America

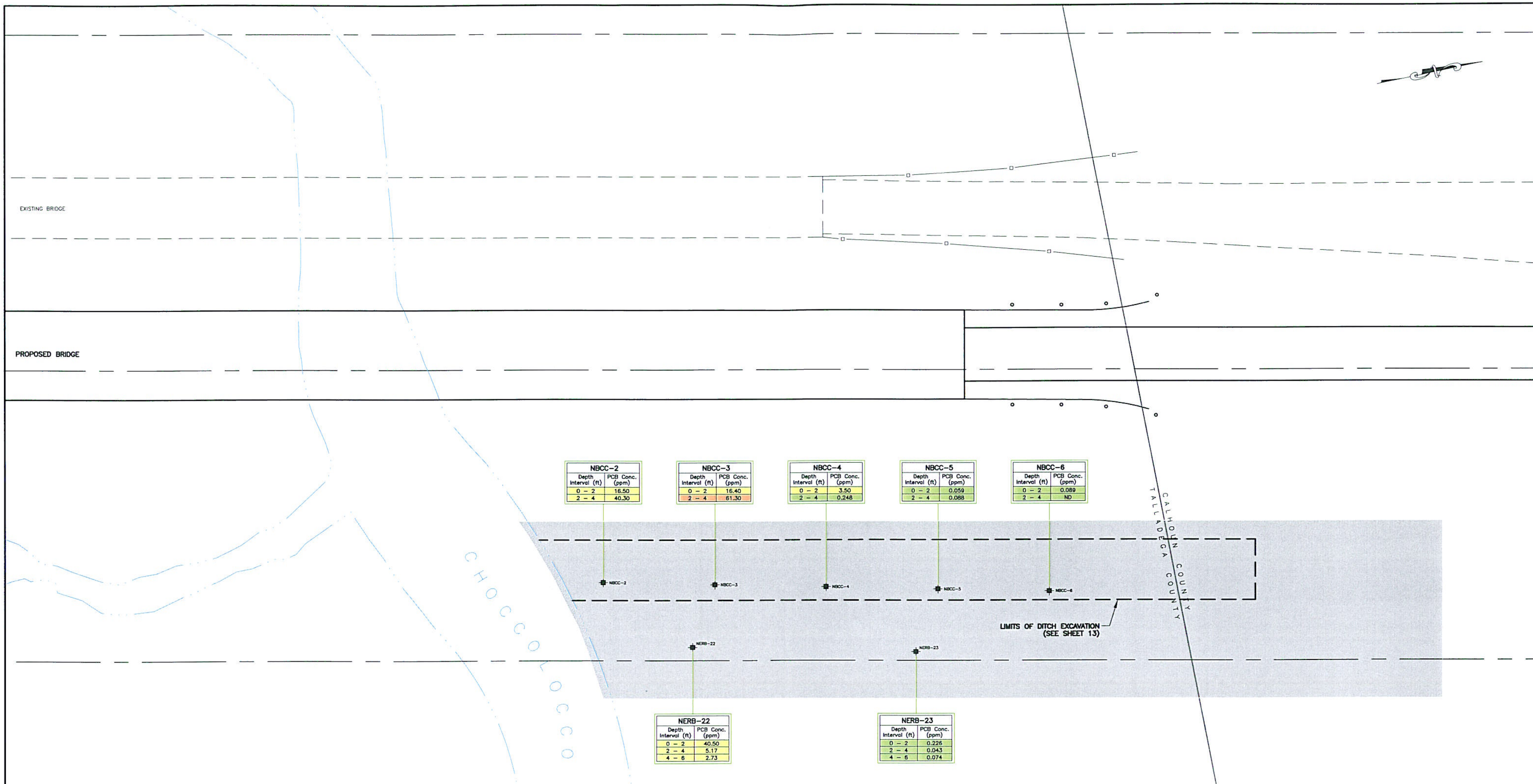
WARNING
0 ½ 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED BY:
DRAWN BY: SAF/BH
CHECKED BY:
PEER REVIEWER:
PROJ MANAGER:
DATE: 03/22/00

CHOCCOLOCCO CREEK
OXFORD, ALABAMA

INTERIM MEASURE PLAN
MAIN BRIDGE
RFI RESULTS

REVISION: 0
PROJECT 460097T143
DRAWING
SHEET 9 OF 15



NBCC-2

Depth Interval (ft)	PCB Conc. (ppm)
0 - 2	16.50
2 - 4	40.30

NBCC-3

Depth Interval (ft)	PCB Conc. (ppm)
0 - 2	16.40
2 - 4	61.30

NBCC-4

Depth Interval (ft)	PCB Conc. (ppm)
0 - 2	3.50
2 - 4	0.248

NBCC-5

Depth Interval (ft)	PCB Conc. (ppm)
0 - 2	0.059
2 - 4	0.088

NBCC-6

Depth Interval (ft)	PCB Conc. (ppm)
0 - 2	0.089
2 - 4	ND

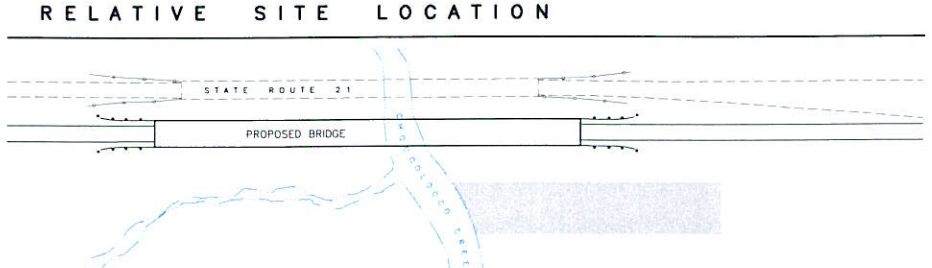
NERB-22

Depth Interval (ft)	PCB Conc. (ppm)
0 - 2	40.50
2 - 4	5.17
4 - 6	2.73

NERB-23

Depth Interval (ft)	PCB Conc. (ppm)
0 - 2	0.226
2 - 4	0.043
4 - 6	0.074

RELATIVE SITE LOCATION



LEGEND

- ■ BORING SAMPLE LOCATION LAW REPORT DATED MARCH 1998.
- (green) PCB CONCENTRATION <1 ppm
- (yellow) PCB CONCENTRATION 1 – 50 ppm
- (orange) PCB CONCENTRATION >50 ppm
- ND PCB BELOW DETECTION LIMITS

0 20 40
SCALE IN FEET

REV	DESCRIPTION OF REVISION	BY	DATE

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300 Birmingham Highway
Anniston, Alabama 36201

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7600 West Tidwell Road, Suite 600
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United States of America

WARNING
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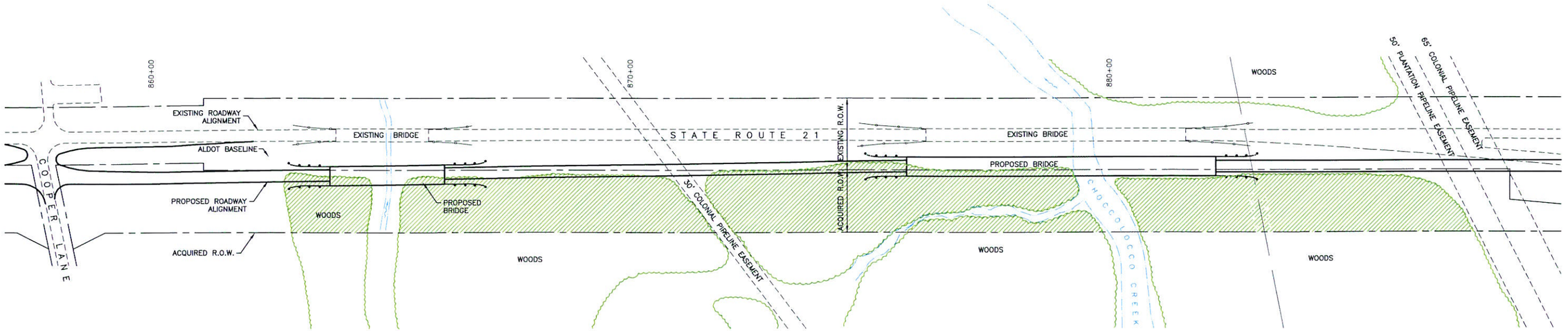
CHECKED BY:
PEER REVIEWER:
PROJ MANAGER:
DATE: 03/22/00

CHOCCOLOCCO CREEK
OXFORD, ALABAMA

INTERIM MEASURES PLAN
MAIN BRIDGE
RFI RESULTS

REVISION: 0
PROJECT 460097T143
DRAWING
SHEET 10 OF 15



LEGEND

WOODED AREAS TO BE CLEARED (APPROXIMATELY 6.2 ACRES TOTAL) (SEE NOTE 3)

NOTES

1. TREES WILL BE CLEARED WITHIN THE CONSTRUCTION R.O.W. BY CUTTING AT OR NEAR GROUND SURFACE.
2. THE TREES WILL BE REDUCED TO CHIPS THAT WILL BE SPREAD OVER AN AREA WITHIN THE R.O.W., BUT OUTSIDE THE PROPOSED ROADWAY EMBANKMENT.
3. EXACT EXTENTS REQUIRING CLEARING TO BE FIELD DETERMINED.

0 100 200
SCALE IN FEET

REV	DESCRIPTION OF REVISION	BY	DATE
0			

DATE: DEC 30, 1999 TIME: 8:55 AM PLOT #:39 DRAWING NAME: INCLEARING.DWG

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Anniston, AL 36201

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United States of America

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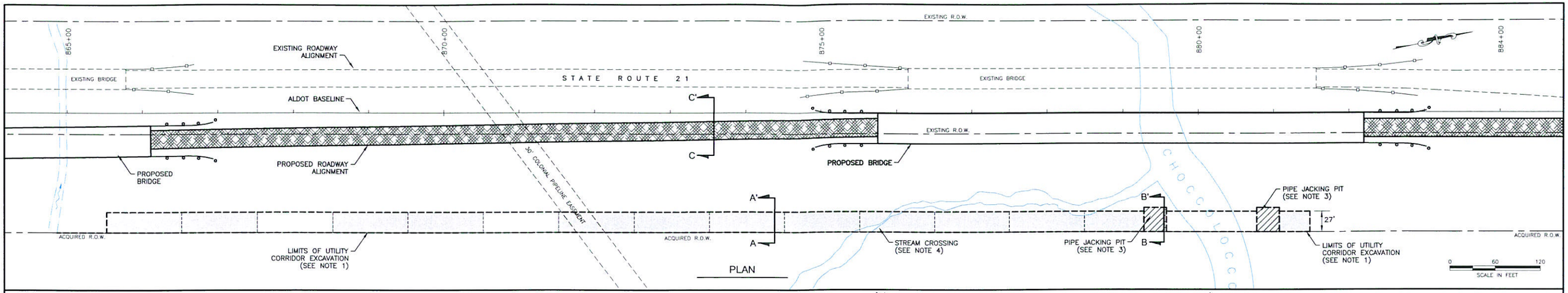
DRAWN BY:	RLR/BH
CHECKED BY:	
PEER REVIEWER:	
PROJ MANAGER:	
DATE:	03/22/00

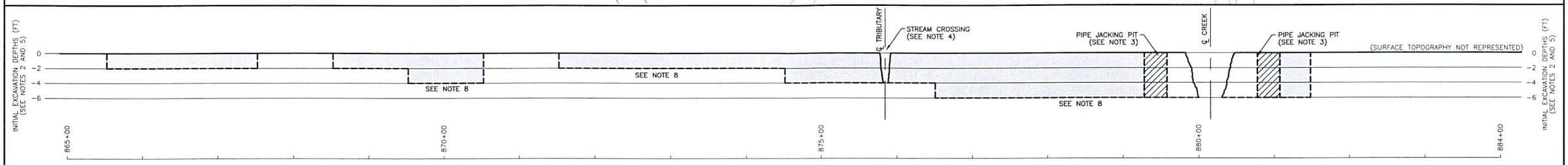
CHOCCOLOCCO CREEK
OXFORD, ALABAMA

INTERIM MEASURES PLAN
CLEARING AREA

REVISION: 0
PROJECT 460097T143
DRAWING
SHEET 11 OF 15

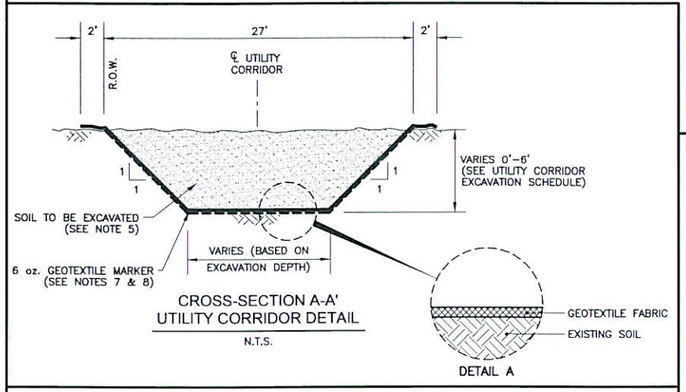


PLAN



PROFILE

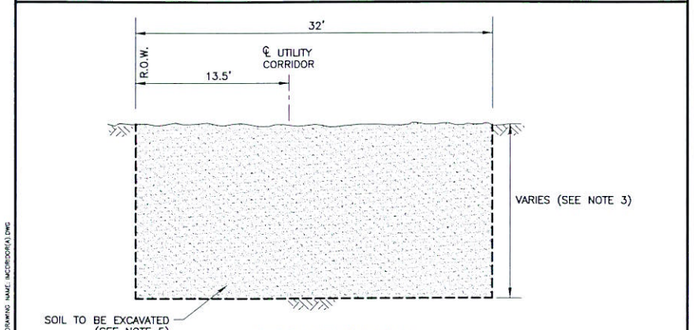
0 60 120
HORIZONTAL SCALE IN FEET
0 6 12
VERTICAL SCALE IN FEET



CROSS-SECTION A-A'
UTILITY CORRIDOR DETAIL

N.T.S.

DETAIL A

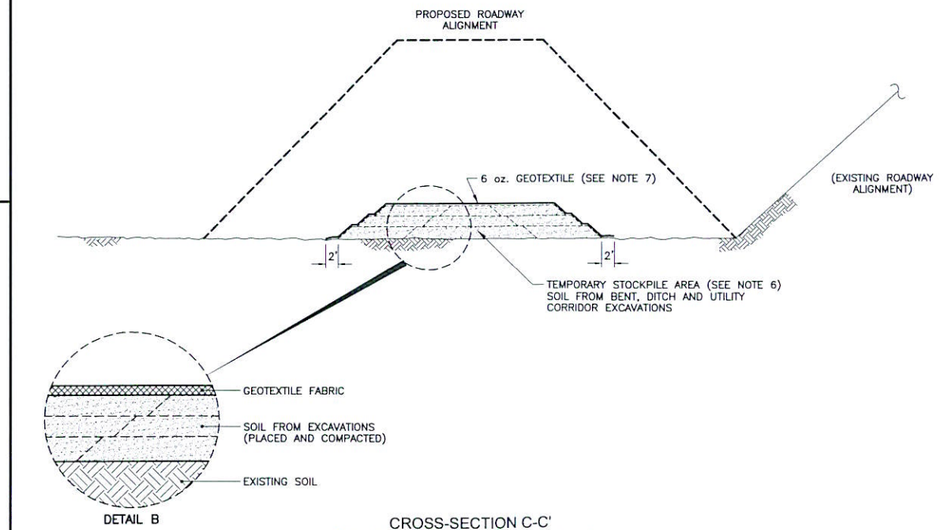


CROSS-SECTION B-B'
PIPE JACKING PIT

N.T.S.

LEGEND

- AREA OF INTERIM MEASURES EXCAVATION
- TEMPORARY STOCKPILE AREA (SEE NOTE 6)
- PIPE JACKING PIT



DETAIL B

CROSS-SECTION C-C'
TEMPORARY SOIL STOCKPILE AREA

N.T.S.

NOTES

1. UTILITY CORRIDOR EXCAVATION WILL BE PERFORMED ADJACENT TO THE EAST RIGHT OF WAY LINE USING A SURFACE WIDTH OF 27 FEET AND 1:1 SIDE SLOPES.
2. CONFIRMATION SOIL SAMPLING WILL BE PERFORMED IN THE UTILITY TRENCH AFTER INITIAL EXCAVATION TO VERIFY THAT SOILS REMAINING IN THE FLOOR OF THE EXCAVATION HAVE PCB CONCENTRATIONS AT OR BELOW 1 mg/kg. SHOULD CONFIRMATION SAMPLING INDICATE PCB LEVELS EXCEED 1 mg/kg, AN ADDITIONAL ONE FOOT WILL BE EXCAVATED TO A MAXIMUM OF 6 FEET BELOW GRADE. ONCE EXCAVATION DEPTHS IN THE TRENCH REACH SIX FEET, NO FURTHER EXCAVATION WILL BE PERFORMED.
3. CONFIRMATION SAMPLING WILL BE PERFORMED IN THE FLOOR OF THE PIPE JACKING PITS TO IDENTIFY EXCAVATION DEPTH REQUIRED TO ACHIEVE PCB CONCENTRATIONS AT OR BELOW 1 mg/kg. FURTHER EXCAVATION WILL BE PERFORMED UNTIL CONFIRMATION SAMPLING DEMONSTRATES PCB LEVELS BELOW 1 mg/kg. IF EXCAVATION REACHES DEPTH REQUIRED FOR PIPE JACKING AND PCB LEVELS ARE GREATER THAN 1 mg/kg, AN ADDITIONAL ONE FOOT WILL BE EXCAVATED AND ONE FOOT OF CLEAN BACKFILL WILL BE PLACED IN THE PIT TO CREATE A CLEAN WORK ZONE.
4. UTILITY CORRIDOR EXCAVATION MAY BE DISCONTINUOUS AT STREAM CROSSING. TO BE FIELD DETERMINED.
5. SOILS WITH PCB CONCENTRATIONS ABOVE 1 mg/kg BUT BELOW 50 mg/kg WILL BE TEMPORARILY STOCKPILED WITHIN THE PROPOSED ROADWAY EMBANKMENT. SOILS WITH PCB CONCENTRATIONS OF 50 mg/kg OR ABOVE WILL BE SEGREGATED AND DISPOSED OF AT AN APPROVED OFFSITE LANDFILL.
6. EXACT LOCATION AND DISTRIBUTION OF SOIL TEMPORARILY STOCKPILED WITHIN THE PROPOSED ROADWAY ALIGNMENT WILL BE FIELD DETERMINED.
7. EDGES OF GEOTEXTILE TO BE SANDBAGGED FOR TEMPORARY ANCHORING. ADDITIONAL SANDBAGGING AS REQUIRED.
8. GEOTEXTILE MARKER WILL BE INSTALLED ONLY IN AREAS WHERE UTILITY CORRIDOR EXCAVATION DEPTH IS 6 FEET. THE LOCATIONS OF GEOTEXTILE MARKER ARE TO BE SURVEYED AND INCLUDED IN AS-BUILT DRAWINGS.

UTILITY CORRIDOR EXCAVATION SCHEDULE

Road Station Alignment*	to	Road Station Alignment*	Interval Centered on	Depth (ft)	Activity (see note 5)
865+52	to	866+52	NERB 7	0-2	On-Site Stockpile
866+52	to	867+52	NERB 8	0-2	On-Site Stockpile
868+52	to	869+52	NERB 10	0-2	On-Site Stockpile
869+52	to	870+52	NERB 11	0-4	On-Site Stockpile
871+52	to	872+52	NERB 13	0-2	On-Site Stockpile
872+52	to	873+52	NERB 14	0-2	On-Site Stockpile
873+52	to	874+51	NERB 15	0-2	On-Site Stockpile
874+51	to	875+51	NERB 16	0-4	On-Site Stockpile
875+51	to	876+51	NERB 17	0-4	On-Site Stockpile
876+51	to	877+50	NERB 18	0-3	On-Site Stockpile
876+51	to	877+50	NERB 18	3-5	Off-Site TSCA Landfill
876+51	to	877+50	NERB 18	5-6	On-Site Stockpile
877+50	to	878+50	NERB 19	0-2	On-Site Stockpile
877+50	to	878+50	NERB 19	2-6	Off-Site TSCA Landfill
878+50	to	879+50	NERB 20	0-2	On-Site Stockpile
878+50	to	879+50	NERB 20	2-4	Off-Site TSCA Landfill
878+50	to	879+50	NERB 20	4-6	On-Site Stockpile
879+50	to	881+48	NERB 22	0-6	On-Site Stockpile

* Station alignments are projected from ALDOT baseline to the utility corridor. Utility corridor width extends from the east right-of-way line to 27' inside the east right-of-way line. Final survey required prior to construction.

REV	DESCRIPTION OF REVISION	BY	DATE
0			

DATE: JAN 03, 2000 TIME: 10:10 AM PLOT # 47 DRAWING NAME: MICROSTATION.DWG

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300 Birmingham Highway
Anniston, AL 36201

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Houston, Texas 77040
United States of America

WARNING
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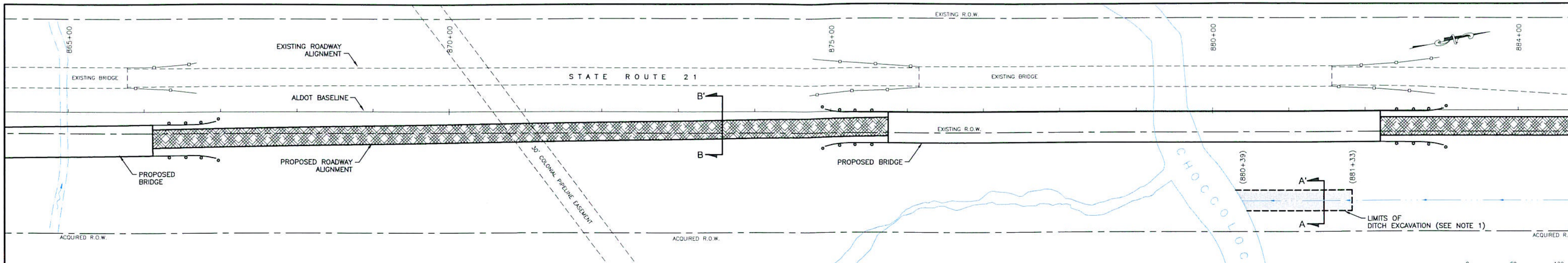
DRAWN BY:	SAF/BH
CHECKED BY:	
PEER REVIEWER:	
PROJ MANAGER:	
DATE:	03/22/00

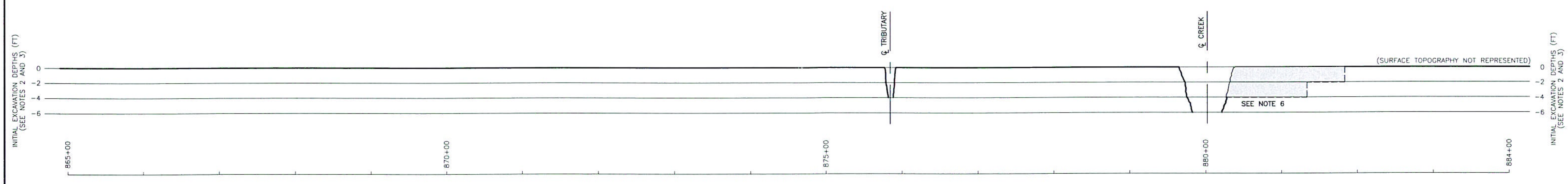
CHOCCOLOCCO CREEK
OXFORD, ALABAMA

INTERIM MEASURES PLAN
UTILITY CORRIDOR EXCAVATION
DETAILS

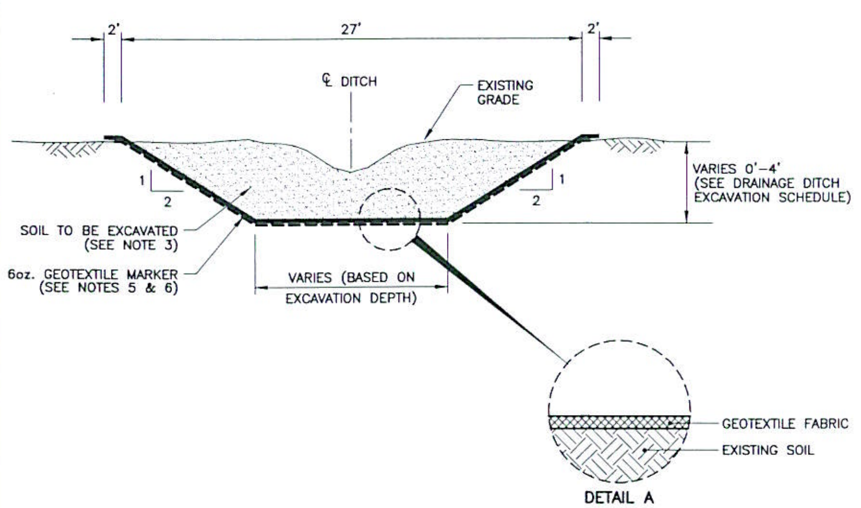
REVISION: 0
PROJECT 460097T143
DRAWING
SHEET 12 OF 15



PLAN

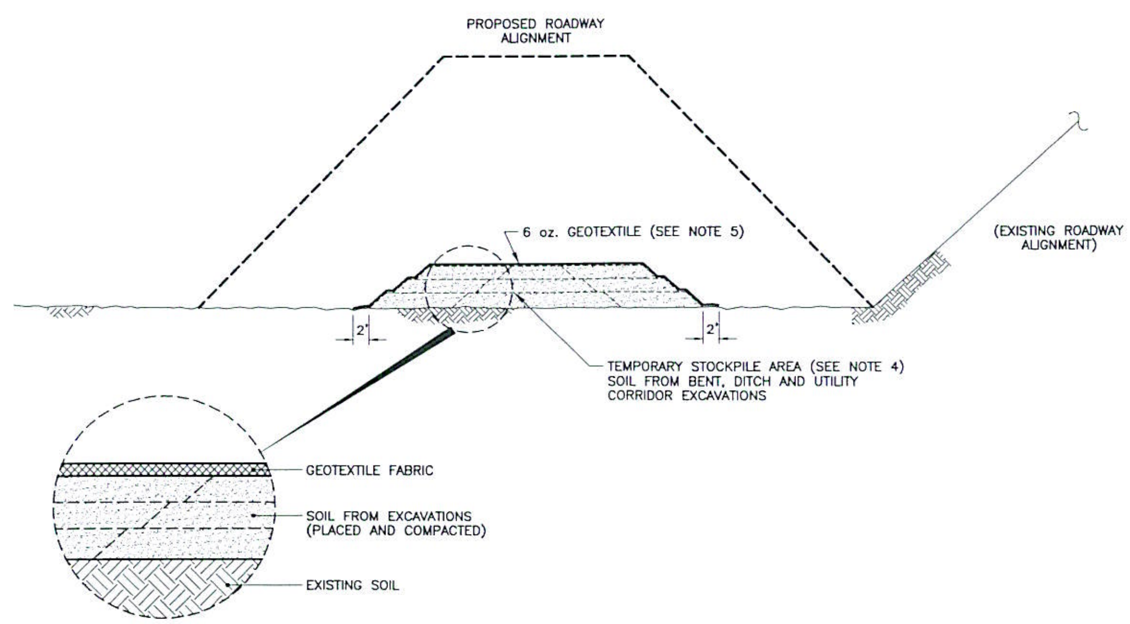


PROFILE



CROSS-SECTION A-A'
DITCH EXCAVATION SECTION
STA. 880+39 TO STA. 881+83

N.T.S.



CROSS-SECTION B-B'
TEMPORARY SOIL STOCKPILE AREA

N.T.S.

LEGEND

- AREA OF INTERIM MEASURES EXCAVATION
- TEMPORARY STOCKPILE AREA (SEE NOTE 4)

NOTES

1. DRAINAGE DITCH EXCAVATION WILL BE PERFORMED ALONG THE CENTERLINE OF THE DRAINAGE DITCH (SEE ALDOT DRAWING FOR CENTERLINE OF DITCH) USING A SURFACE WIDTH OF 27 FEET AND 2:1 SIDE SLOPES.
2. CONFIRMATION SOIL SAMPLING WILL BE PERFORMED IN THE DITCH TRENCH AFTER INITIAL EXCAVATION TO VERIFY THAT SOILS REMAINING IN THE FLOOR OF THE EXCAVATION HAVE PCB CONCENTRATIONS AT OR BELOW 1 mg/kg. SHOULD CONFIRMATION SAMPLING INDICATE PCB LEVELS EXCEED 1 mg/kg, AN ADDITIONAL ONE FOOT WILL BE EXCAVATED TO A MAXIMUM OF 4 FEET BELOW GRADE. TOTAL EXCAVATION DEPTHS WILL NOT EXCEED 4 FEET BELOW GRADE.
3. SOILS WITH PCB CONCENTRATIONS ABOVE 1 mg/kg BUT BELOW 50 mg/kg WILL BE TEMPORARILY STOCKPILED WITHIN THE PROPOSED ROADWAY EMBANKMENT. SOILS WITH PCB CONCENTRATIONS OF 50 mg/kg OR ABOVE WILL BE SEGREGATED AND DISPOSED OF AT AN APPROVED OFFSITE LANDFILL.
4. EXACT LOCATION AND DISTRIBUTION OF SOIL TEMPORARILY STOCKPILED WITHIN THE PROPOSED ROADWAY ALIGNMENT WILL BE FIELD DETERMINED.
5. EDGES OF GEOTEXTILE TO BE SANDBAGGED FOR TEMPORARY ANCHORING. ADDITIONAL SANDBAGGING AS REQUIRED. OVERLAP BETWEEN GEOTEXTILE PANELS WILL BE AT LEAST 1 FOOT AND IN THE DIRECTION OF THE OVERLAND FLOW
6. GEOTEXTILE MARKER WILL BE INSTALLED WHERE DITCH EXCAVATION DEPTH IS 4 FEET. THE LOCATIONS OF GEOTEXTILE MARKER ARE TO BE SURVEYED AND INCLUDED IN AS-BUILT DRAWINGS.

DRAINAGE DITCH EXCAVATION SCHEDULE

Road Station Alignment*	to	Road Station Alignment*	Interval Centered on	Depth (ft)	Activity
880+39	to	880+83	NBCC-2	0-4	On-Site Stockpile
880+83	to	881+33	NBCC-3	0-2	On-Site Stockpile
880+83	to	881+33	NBCC-3	2-4	Off-Site TSCA Landfill
881+33	to	881+83	NBCC-4	0-2	On-Site Stockpile

* Station alignments are projected from ALDOT baseline to the drainage ditch excavation. Refer to ALDOT drawings for exact ditch alignment. Final survey required prior to construction.

REV	DESCRIPTION OF REVISION	BY	DATE

SOLUTIA
300 Birmingham Highway
Anniston, AL 36201

URS Greiner Woodward Clyde
7600 West Tidwell Road, Suite 600
Houston, Texas 77040
United States of America

WARNING
0 ½ 1
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DRAWN BY: SAF/BH
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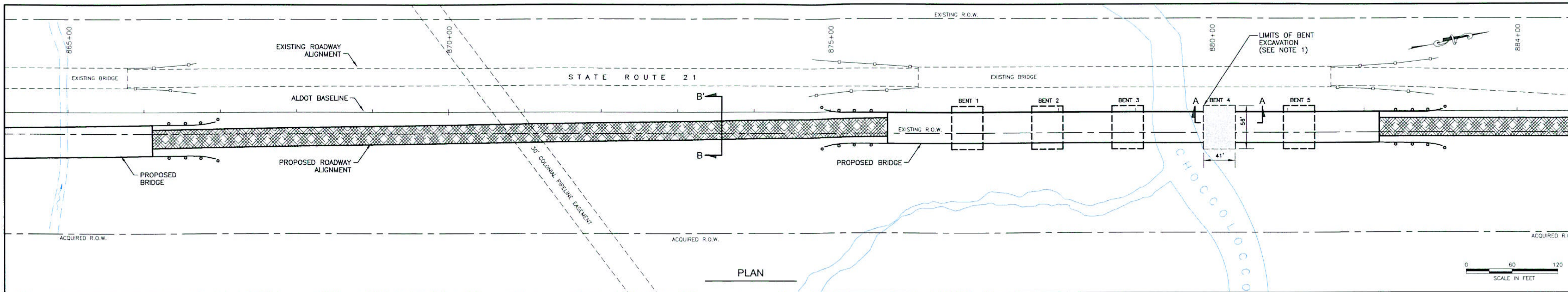
PEER REVIEWER:
PROJ MANAGER:
DATE: 03/22/00

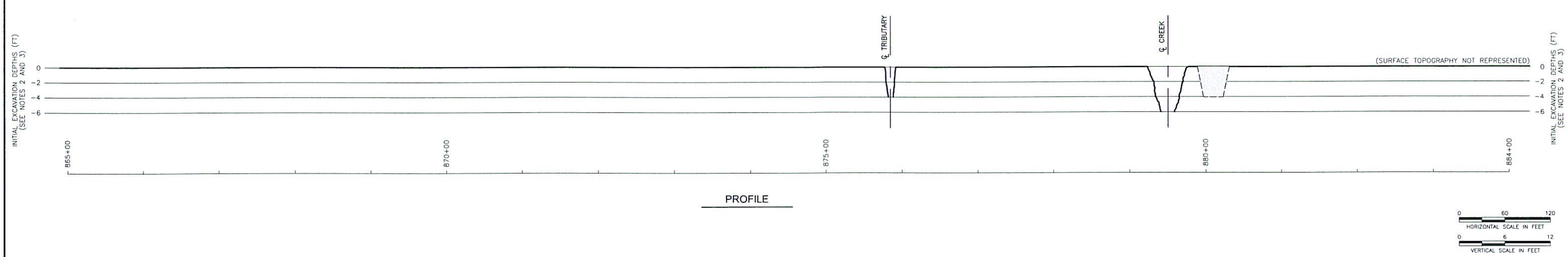
CHOCCOLOCCO CREEK
OXFORD, ALABAMA

INTERIM MEASURES PLAN
DITCH EXCAVATION
DETAILS

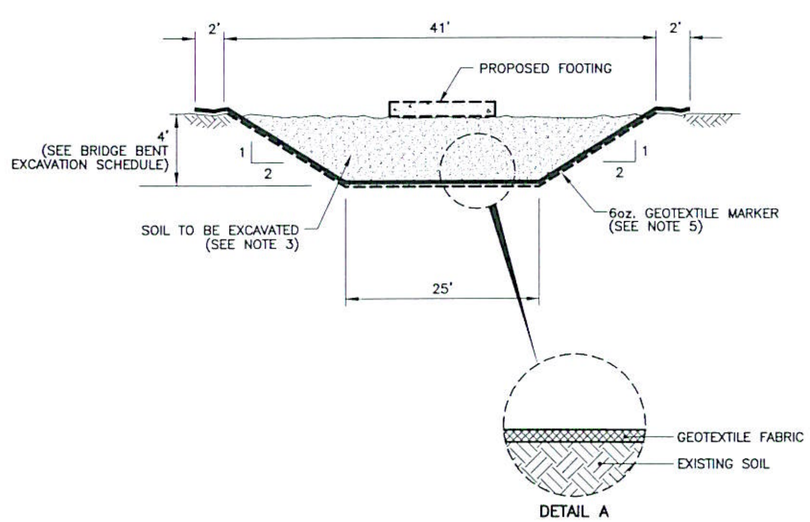
REVISION: 0
PROJECT 460097T143
DRAWING



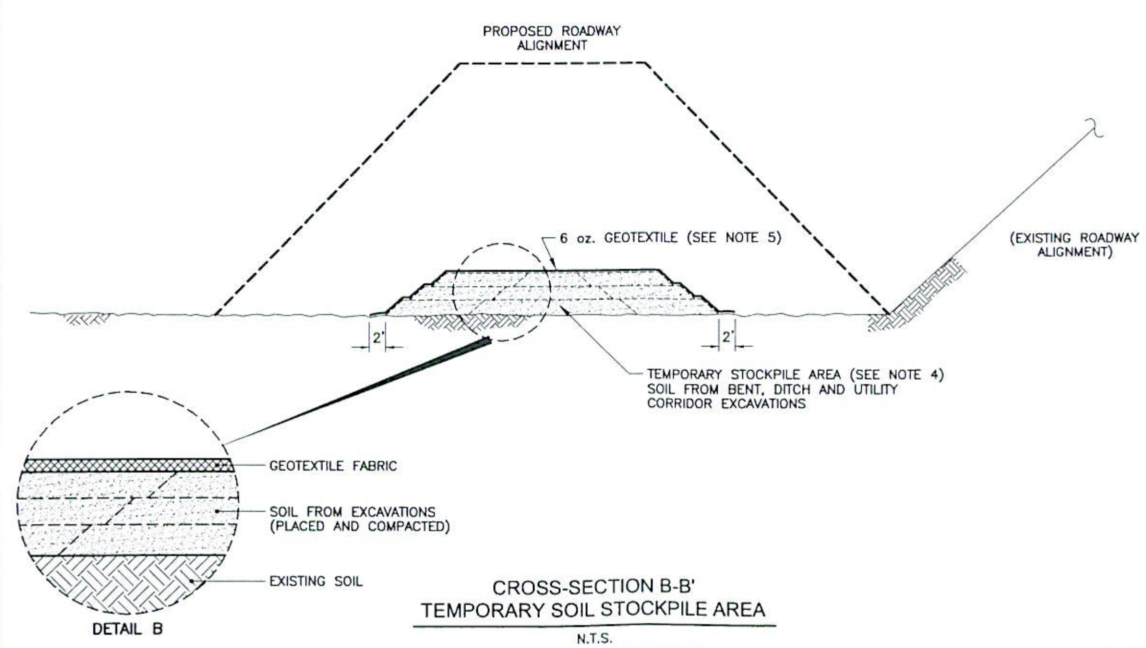
PLAN



PROFILE



CROSS-SECTION A-A'
BRIDGE BENT EXCAVATION
N.T.S.



CROSS-SECTION B-B'
TEMPORARY SOIL STOCKPILE AREA
N.T.S.

LEGEND

- AREA OF INTERIM MEASURES EXCAVATION
- TEMPORARY STOCKPILE AREA (SEE NOTE 4)

NOTES

1. BRIDGE BENT EXCAVATION WILL BE PERFORMED AS INDICATED WITH MAXIMUM HORIZONTAL EXTENTS OF 56' BY 41' AT THE SURFACE AND 2:1 SIDE SLOPES.
2. CONFIRMATION SOIL SAMPLING WILL TAKE PLACE AFTER INITIAL EXCAVATION TO VERIFY THAT SOILS REMAINING IN THE FLOOR OF THE EXCAVATION HAVE PCB CONCENTRATIONS BELOW 50 mg/kg. SHOULD CONFIRMATION SAMPLING INDICATE PCB LEVELS EXCEED 50 mg/kg, EXCAVATION WILL CONTINUE UNTIL CONCENTRATIONS ARE BELOW 50 mg/kg.
3. SOILS WITH PCB CONCENTRATIONS ABOVE 1 mg/kg BUT BELOW 50 mg/kg WILL BE PLACED WITHIN THE PROPOSED ROADWAY EMBANKMENT. SOILS WITH PCB CONCENTRATIONS OF 50 mg/kg OR ABOVE WILL BE SEGREGATED AND DISPOSED OF AT AN APPROVED OFFSITE LANDFILL.
4. EXACT LOCATION AND DISTRIBUTION OF SOIL TEMPORARILY STOCKPILED WITHIN THE PROPOSED ROADWAY ALIGNMENT WILL BE FIELD DETERMINED.
5. EDGES OF GEOTEXTILE TO BE SANDBAGGED FOR TEMPORARY ANCHORING. ADDITIONAL SANDBAGGING AS REQUIRED.

BRIDGE BENT EXCAVATION SCHEDULE

Bridge Bent	Road Station Alignment*	Depth (ft)	Activity
Bent #4	880+10	0-4	Off-Site TSCA Landfill

* Station alignments are projected from ALDOT baseline to the center point of bridge bent excavations. Final survey required prior to construction.

REV	DESCRIPTION OF REVISION	BY	DATE

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300 Birmingham Highway
Anniston, AL 36201

URS Greiner Woodward Clyde
7600 West Tidwell Road, Suite 600
Houston, Texas 77040
United States of America

WARNING
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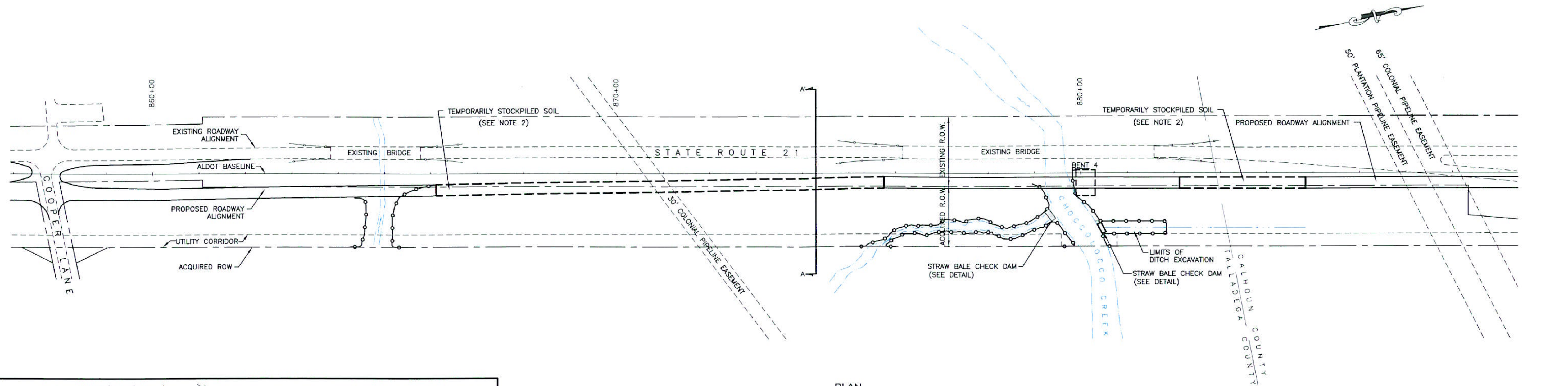
DRAWN BY: SAF/BH
CHECKED BY:
PEER REVIEWER:
PROJ MANAGER:
DATE: 03/22/00

CHOCCOLOCCO CREEK
OXFORD, ALABAMA

INTERIM MEASURES PLAN
BRIDGE BENT EXCAVATION
DETAILS

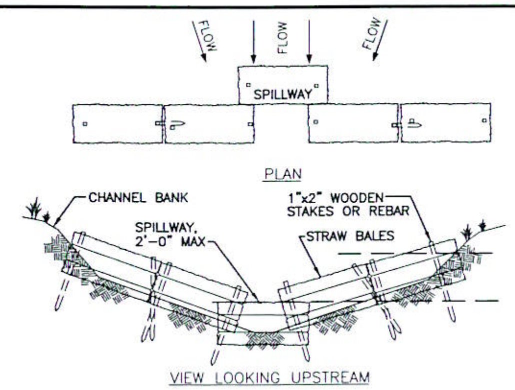
REVISION: 0
PROJECT 460097T143
DRAWING

DATE: JAN 05, 2000 TIME: 10:07 AM PLOT # 37 DRAWING NAME: M:\RENTS\A3.DWG



PLAN

0 100 200
SCALE IN FEET



STRAW BALE CHECK DAM DETAIL

N.T.S.

N O T E S

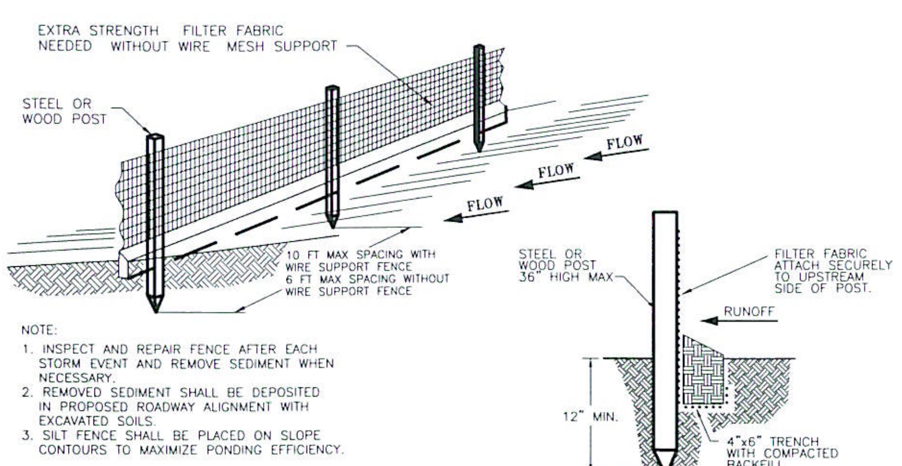
1. EMBED BALES 4 INCHES INTO THE SOIL AND KEY BALES INTO THE CHANNEL BANKS.
2. PLACE BALES PERPENDICULAR TO THE FLOW WITH ENDS TIGHTLY ABUTTING. USE STRAW, ROCKS, OR FILTER FABRIC TO FILL ANY GAPS AND TAMP BACKFILL MATERIAL TO PREVENT EROSION OR FLOW AROUND THE BANKS.
3. SPILLWAY HEIGHT NOT TO EXCEED 2 FEET.
4. INSPECT AFTER EACH SIGNIFICANT STORM, MAINTAIN AND REPAIR PROMPTLY.

L E G E N D

- 6 oz. GEOTEXTILE (SEE NOTE 1) (APPROXIMATELY 7.0 ACRES TOTAL)
- SILT FENCE (SEE NOTE 3)
- TEMPORARY STOCKPILE AREA (SEE NOTE 2)
- CHECK DAM

N O T E S

1. SAND BAG AS NECESSARY TO HOLD IN PLACE. OVERLAP OF GEOTEXTILE PANELS SHALL BE AT LEAST ONE FOOT AND IN THE DIRECTION OF OVERLAND FLOW.
2. EXACT LOCATION, DISTRIBUTION AND EROSION PROTECTION OF SOIL TEMPORARILY STOCKPILED WITHIN THE PROPOSED ROAD ALIGNMENT WILL BE FIELD DETERMINED.
3. TURN THE ENDS OF THE SILT FENCE UPHILL.
4. EXACT LOCATION AND DISTRIBUTION OF SOIL TEMPORARILY STOCKPILED WITHIN THE PROPOSED ROADWAY ALIGNMENT WILL BE FIELD DETERMINED.

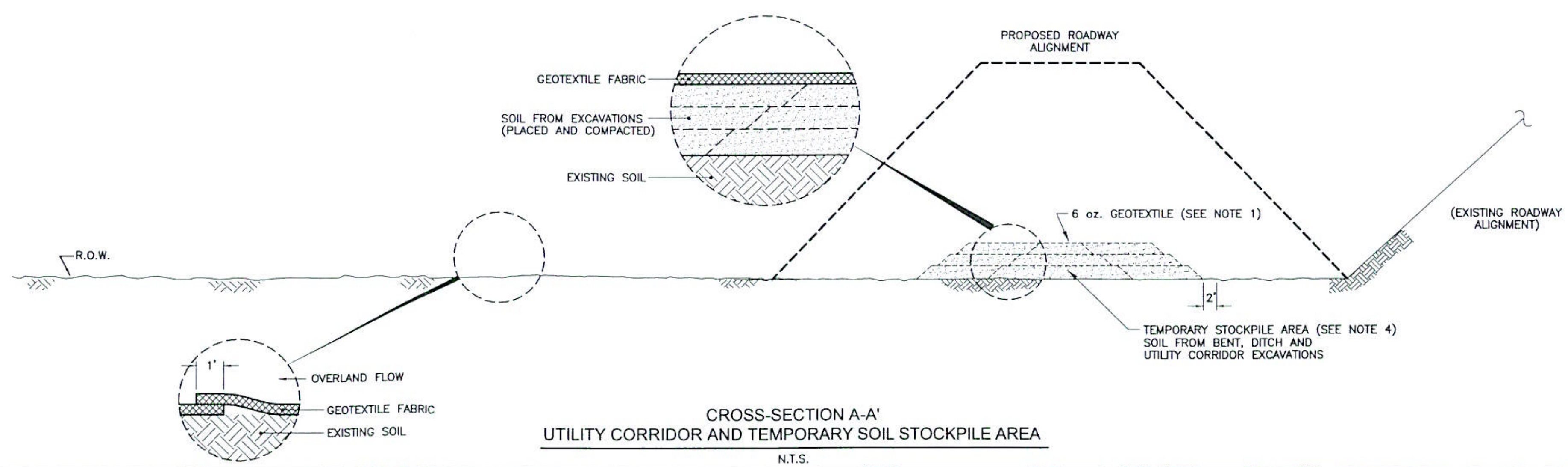


NOTE:
1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
2. REMOVED SEDIMENT SHALL BE DEPOSITED IN PROPOSED ROADWAY ALIGNMENT WITH EXCAVATED SOILS.
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

SILT FENCE DETAIL

TRENCH WITH NATIVE BACKFILL

N.T.S.



CROSS-SECTION A-A'
UTILITY CORRIDOR AND TEMPORARY SOIL STOCKPILE AREA

N.T.S.

REV	DESCRIPTION OF REVISION	BY	DATE

SOLUTIA
300 Birmingham Highway
Anniston, AL 36201

URS Greiner Woodward Clyde
7600 West Tidwell Road, Suite 600
Houston, Texas 77040
United States of America

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED BY:
DRAWN BY: RLR/BH
CHECKED BY:
PEER REVIEWER:
PROJ MANAGER:
DATE: 03/22/00

CHOCCOLOCCO CREEK
OXFORD, ALABAMA

INTERIM MEASURES PLAN
EROSION AND SEDIMENT CONTROLS

REVISION: 0
PROJECT 460097T143
DRAWING
SHEET 15 OF 15